

Mathematics: Number / Knowing (M031286 - M01\_01)  
 Label: 762 cars parked in 6 equal rows  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
							V1	%Right	V1	%Right
Algeria	609	17.7	11.8	56.8	13.0	0.7	17.7	19.6	15.9	
Armenia	566	63.1	5.6	18.7	12.3	0.3	63.1	63.2	63.0	
Australia	583	12.0	3.3	70.6	13.8	0.3	12.0	10.9	13.0	
Austria	687	59.8	10.9	22.4	6.8	0.0	59.8	57.7	61.6	
Chinese Taipei	587	87.4	3.7	8.7	0.2	0.0	87.4	86.0	88.8	
Colombia	667	16.9	12.7	56.3	11.1	3.0	16.9	16.4	17.3	
Czech Republic	611	39.1	10.2	32.2	18.5	0.0	39.1	39.6	38.7	
Denmark	489	19.0	2.1	56.3	22.2	0.3	19.0	20.2	17.6	
El Salvador	596	4.6	3.9	68.1	21.7	1.6	4.6	4.8	4.5	
England	593	22.5	4.7	60.4	12.4	0.0	22.5	24.8	20.6	
Georgia	588	59.9	3.1	27.5	9.0	0.4	59.9	60.2	59.7	
Germany	759	48.5	7.3	26.7	17.2	0.2	48.5	47.6	49.6	
Hong Kong SAR	542	86.1	1.1	11.2	1.5	0.0	86.1	86.4	85.8	
Hungary	578	51.4	12.0	30.2	6.3	0.1	51.4	50.7	52.1	
Iran, Islamic Rep. of	554	28.0	21.7	41.0	8.3	1.0	28.0	26.0	30.1	
Italy	636	51.1	11.0	27.8	10.1	0.0	51.1	46.3	56.3	
Japan	643	71.8	5.2	20.2	2.9	0.0	71.8	71.7	71.8	
Kazakhstan	567	71.7	9.9	18.2	0.3	0.0	71.7	73.7	69.3	
Kuwait	549	2.5	13.8	61.5	19.6	2.6	2.5	2.4	2.6	
Latvia	540	61.3	3.0	30.7	4.9	0.1	61.3	65.9	56.7	
Lithuania	565	69.5	3.6	23.3	3.5	0.1	69.5	70.4	68.6	
Morocco	559	13.1	7.7	52.7	24.5	1.9	13.1	11.2	15.3	
Netherlands	478	16.7	5.5	69.9	7.7	0.2	16.7	11.9	20.3	
New Zealand	705	7.9	1.0	81.5	9.6	0.0	7.9	7.0	8.8	
Norway	578	5.1	1.3	72.4	20.6	0.6	5.1	5.5	4.8	
Qatar	990	0.7	0.6	78.2	19.6	0.9	0.7	1.0	0.4	
Russian Federation	633	75.4	4.5	17.6	2.4	0.2	75.4	74.9	75.9	
Scotland	568	22.4	3.0	59.3	15.0	0.2	22.4	19.7	25.3	
Singapore	718	81.2	4.0	14.6	0.2	0.0	81.2	83.0	79.5	
Slovak Republic	705	48.9	13.4	32.6	4.8	0.3	48.9	48.8	49.1	
Slovenia	622	44.5	7.0	45.3	3.1	0.1	44.5	45.1	43.8	
Sweden	665	10.1	2.5	65.8	21.6	0.0	10.1	9.8	10.4	
Tunisia	595	25.0	16.4	50.8	6.4	1.4	25.0	27.6	22.8	
Ukraine	618	57.8	8.3	27.6	6.0	0.3	57.8	59.2	56.8	
United States	1109	35.9	11.2	49.6	3.0	0.2	35.9	37.2	34.4	
Yemen	834	4.6	0.4	77.0	17.0	1.0	4.6	3.7	5.3	
International Avg.	636	38.7	6.9	43.4	10.5	0.5	38.7	38.6	38.8	
Alberta, Canada	565	10.8	5.6	76.6	6.8	0.3	10.8	10.6	10.9	
British Columbia, Canada	597	16.4	4.8	64.1	14.6	0.1	16.4	15.1	17.7	
Dubai, UAE	431	27.8	12.9	47.2	10.7	1.4	27.8	28.8	27.0	
Massachusetts, US	244	51.9	8.0	35.3	4.8	0.0	51.9	50.5	53.5	
Minnesota, US	265	35.7	9.6	53.9	0.8	0.0	35.7	33.0	37.8	
Ontario, Canada	493	11.6	4.1	72.6	11.3	0.4	11.6	13.9	9.3	
Quebec, Canada	557	36.8	7.1	51.4	4.6	0.1	36.8	38.2	35.4	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031106 - M01\_02)  
 Label: Mano's missing digit  
 Type: CR Key: -

COUNTRY	N	10	11	70	79	OMIT TED	NOT REACH ED	NOT REACH		
								V1 %Right	2.BOY %Right	
Algeria	609	12.7	3.1	0.1	67.5	15.5	1.1	15.8	19.6	12.0
Armenia	566	41.0	25.4	9.7	15.7	7.9	0.3	66.4	68.1	64.9
Australia	583	20.5	1.2	55.6	18.1	4.0	0.5	21.8	19.9	23.7
Austria	687	31.3	9.2	37.1	19.6	2.5	0.2	40.6	41.9	39.4
Chinese Taipei	587	56.9	31.2	6.0	4.9	1.0	0.0	88.2	90.3	86.1
Colombia	667	22.7	2.4	26.2	36.5	8.4	3.7	25.2	24.7	25.6
Czech Republic	611	34.6	6.2	33.8	22.3	2.8	0.3	40.8	42.4	39.2
Denmark	489	26.9	1.6	40.4	25.3	5.5	0.4	28.5	29.6	27.1
El Salvador	596	11.8	1.2	26.7	48.2	8.8	3.3	13.0	13.1	12.8
England	593	20.8	7.0	43.2	25.7	3.3	0.0	27.8	32.6	24.0
Georgia	588	42.7	17.6	12.6	19.3	6.1	1.8	60.2	62.6	58.3
Germany	759	31.0	9.9	40.5	13.8	4.4	0.4	40.9	43.0	38.4
Hong Kong SAR	542	77.3	7.8	10.0	4.1	0.8	0.0	85.1	87.4	82.7
Hungary	578	37.3	14.2	28.3	16.4	3.7	0.1	51.5	51.3	51.6
Iran, Islamic Rep. of	554	20.7	7.8	34.4	26.7	9.0	1.3	28.6	31.5	25.6
Italy	636	42.0	6.5	27.4	19.0	5.0	0.1	48.5	47.6	49.5
Japan	643	78.6	1.8	13.0	5.5	1.1	0.0	80.4	84.3	77.2
Kazakhstan	567	64.8	17.9	10.0	6.8	0.4	0.0	82.7	86.0	79.0
Kuwait	548	9.4	0.8	17.1	44.8	24.0	3.9	10.2	12.6	7.6
Latvia	540	54.9	16.2	12.0	15.0	1.6	0.2	71.1	74.3	68.1
Lithuania	565	45.6	25.9	17.3	9.0	2.1	0.1	71.5	73.3	69.8
Morocco	559	13.3	1.1	0.0	61.6	21.3	2.7	14.4	13.2	15.2
Netherlands	478	27.2	4.2	48.1	19.6	0.7	0.3	31.3	27.8	34.0
New Zealand	705	14.2	3.9	40.1	36.6	5.2	0.1	18.0	17.0	19.1
Norway	578	16.1	1.7	55.5	21.7	4.2	0.9	17.7	16.3	18.9
Qatar	990	4.2	0.8	13.7	59.0	20.7	1.5	5.0	6.0	4.1
Russian Federation	633	66.8	17.5	11.2	3.8	0.6	0.2	84.2	84.9	83.7
Scotland	568	21.3	3.8	54.0	15.0	5.8	0.2	25.1	22.1	28.3
Singapore	718	75.9	9.1	8.9	5.8	0.4	0.0	85.0	84.5	85.5
Slovak Republic	705	40.4	9.4	22.8	23.2	3.9	0.3	49.8	49.1	50.4
Slovenia	622	25.5	5.9	47.2	17.2	4.0	0.1	31.5	31.4	31.6
Sweden	665	16.1	2.4	57.8	18.7	4.8	0.2	18.5	16.5	20.6
Tunisia	595	9.3	8.3	23.2	47.2	10.4	1.5	17.6	17.4	17.8
Ukraine	618	52.5	15.6	13.1	15.7	2.8	0.3	68.1	65.5	70.2
United States	1109	33.4	7.3	47.7	10.9	0.6	0.2	40.7	43.4	37.6
Yemen	834	7.1	0.3	5.0	68.2	18.0	1.4	7.4	8.2	6.8
International Avg.	636	33.5	8.5	26.4	24.7	6.2	0.8	42.0	42.8	41.3
Alberta, Canada	565	21.7	4.6	52.7	18.4	2.4	0.3	26.3	26.1	26.4
British Columbia, Canada	597	25.8	5.0	48.3	16.8	3.8	0.2	30.8	30.4	31.2
Dubai, UAE	431	23.7	7.9	31.9	27.9	7.0	1.5	31.7	31.3	32.0
Massachusetts, US	244	45.2	6.9	37.8	8.6	1.4	0.0	52.2	52.4	51.9
Minnesota, US	265	36.0	9.0	45.3	9.7	0.0	0.0	45.0	48.6	42.2
Ontario, Canada	493	19.1	3.0	53.2	20.7	3.4	0.4	22.2	26.4	18.1
Quebec, Canada	557	27.7	14.2	37.3	17.8	2.8	0.1	41.9	47.3	36.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031282 - M01\_03)  
 Label: Number of boys and girls in a school  
 Type: CR Key: -

COUNTRY	N	20	10	11	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	609	2.3	1.5	0.0	9.5	60.3	23.7	2.7	3.8	2.3	2.9	1.7
Armenia	566	19.6	17.8	5.5	13.2	26.4	17.2	0.3	42.9	19.6	23.5	16.0
Australia	583	8.6	4.1	0.0	21.0	57.6	7.5	1.3	12.7	8.6	7.1	10.1
Austria	687	34.6	0.9	1.4	16.2	27.4	19.2	0.2	37.0	34.6	32.5	36.5
Chinese Taipei	587	68.7	2.3	0.2	5.6	21.4	1.9	0.0	71.2	68.7	70.3	67.2
Colombia	667	1.9	0.2	0.7	11.7	69.8	11.1	4.5	2.8	1.9	0.4	3.3
Czech Republic	611	22.7	2.8	5.7	15.1	38.1	15.1	0.4	31.2	22.7	26.5	18.6
Denmark	489	10.3	6.7	0.9	24.9	42.8	13.9	0.7	17.9	10.3	11.3	9.1
El Salvador	596	0.3	1.1	0.2	7.3	69.3	18.3	3.4	1.7	0.3	0.3	0.3
England	593	20.5	4.0	2.7	23.0	44.4	5.4	0.0	27.2	20.5	22.4	19.0
Georgia	588	9.8	13.4	0.8	16.3	42.9	14.9	2.0	24.0	9.8	9.4	10.2
Germany	759	25.8	4.6	2.5	30.3	25.9	10.5	0.4	32.9	25.8	26.6	24.8
Hong Kong SAR	542	44.4	15.6	7.9	6.0	23.3	3.0	0.0	67.8	44.4	45.6	43.1
Hungary	578	22.5	5.6	2.8	20.2	39.8	8.1	0.9	30.9	22.5	23.7	21.3
Iran, Islamic Rep. of	554	8.6	1.0	1.0	12.3	55.7	19.3	2.1	10.6	8.6	9.5	7.7
Italy	636	18.0	6.0	2.4	24.6	32.7	15.8	0.5	26.4	18.0	15.6	20.6
Japan	643	35.6	7.1	6.7	12.8	33.6	4.2	0.0	49.4	35.6	37.3	34.2
Kazakhstan	567	15.1	32.6	0.4	10.5	38.7	2.7	0.0	48.1	15.1	16.3	13.8
Kuwait	549	0.5	0.3	0.0	2.1	59.4	32.5	5.2	0.8	0.5	0.9	0.0
Latvia	540	27.3	11.8	2.2	19.0	33.1	6.1	0.4	41.3	27.3	31.8	23.0
Lithuania	565	32.6	6.3	5.3	17.0	33.0	5.4	0.3	44.2	32.6	36.2	29.2
Morocco	559	0.1	4.4	0.0	4.3	56.0	32.2	3.0	4.5	0.1	0.0	0.0
Netherlands	478	9.4	10.7	0.8	35.4	40.5	2.9	0.3	20.9	9.4	11.9	7.6
New Zealand	705	7.9	5.3	1.5	13.8	64.6	6.6	0.3	14.7	7.9	9.1	6.8
Norway	578	4.8	6.1	0.7	17.1	56.1	13.8	1.5	11.6	4.8	6.2	3.8
Qatar	990	0.2	0.2	0.1	1.4	72.3	23.3	2.4	0.5	0.2	0.4	0.0
Russian Federation	633	21.8	21.1	3.2	15.6	32.8	5.2	0.3	46.2	21.8	24.6	19.3
Scotland	568	12.1	4.7	2.3	20.9	49.3	10.4	0.4	19.1	12.1	10.8	13.4
Singapore	718	62.9	1.4	2.7	6.8	25.9	0.3	0.0	67.0	62.9	64.8	61.1
Slovak Republic	705	24.9	5.0	4.2	13.4	38.5	13.6	0.4	34.1	24.9	27.4	22.7
Slovenia	622	27.3	1.0	7.2	9.4	47.8	7.2	0.1	35.5	27.3	25.5	29.3
Sweden	665	17.8	5.3	2.9	21.0	39.6	13.0	0.4	26.0	17.8	20.0	15.5
Tunisia	595	6.7	2.2	0.6	12.4	62.4	13.3	2.5	9.4	6.7	6.6	6.7
Ukraine	618	13.2	11.5	0.8	16.1	43.4	14.7	0.3	25.5	13.2	11.9	14.2
United States	1109	24.6	1.6	5.0	22.8	44.1	1.5	0.3	31.2	24.6	29.0	19.6
Yemen	834	0.4	0.7	0.0	1.4	72.0	23.3	2.2	1.1	0.4	0.3	0.4
International Avg.	636	18.4	6.3	2.3	14.7	45.0	12.1	1.1	27.0	18.4	19.4	17.5
Alberta, Canada	565	16.9	2.2	2.0	22.9	50.6	5.0	0.4	21.1	16.9	18.7	15.4
British Columbia, Canada	597	14.3	3.4	2.6	25.4	47.8	6.1	0.4	20.3	14.3	15.4	13.3
Dubai, UAE	431	7.7	2.9	0.8	17.0	58.5	11.4	1.8	11.3	7.7	6.8	8.4
Massachusetts, US	244	38.2	4.2	7.0	18.0	29.5	3.1	0.0	49.4	38.2	37.8	38.7
Minnesota, US	265	26.9	1.7	6.7	26.7	37.3	0.8	0.0	35.2	26.9	27.2	26.6
Ontario, Canada	493	15.5	3.3	3.3	21.6	52.0	4.0	0.5	22.0	15.5	23.1	8.1
Quebec, Canada	557	25.3	3.7	4.1	29.8	33.7	3.1	0.2	33.2	25.3	25.5	25.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031227 - M01\_04)  
 Label: Sean's rule to transform numbers  
 Type: CR Key: -

COUNTRY	N	10	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	607	4.6	1.0	56.4	34.1	4.0	5.6	6.7	4.5
Armenia	564	24.7	10.4	29.6	34.9	0.4	35.1	34.3	35.9
Australia	583	16.8	2.8	60.6	18.5	1.3	19.6	15.3	23.8
Austria	687	8.6	2.8	39.9	48.1	0.7	11.4	11.4	11.4
Chinese Taipei	587	32.5	0.4	47.3	19.8	0.0	32.9	32.6	33.2
Colombia	667	0.5	0.0	68.1	26.1	5.3	0.5	0.0	1.1
Czech Republic	611	5.2	0.9	36.4	57.1	0.4	6.1	5.5	6.8
Denmark	489	13.9	3.1	40.4	40.7	1.9	17.0	17.7	16.1
El Salvador	596	0.0	0.0	72.4	23.1	4.5	0.0	0.0	0.0
England	593	25.5	2.2	50.0	22.2	0.0	27.8	22.6	32.0
Georgia	588	5.1	3.0	48.1	41.1	2.8	8.1	7.1	8.8
Germany	759	11.0	2.3	38.2	48.2	0.4	13.3	14.0	12.5
Hong Kong SAR	542	36.6	2.3	41.2	19.8	0.0	38.9	36.4	41.6
Hungary	578	25.2	2.5	41.0	30.4	0.9	27.7	26.6	28.9
Iran, Islamic Rep. of	554	3.7	1.6	56.0	36.3	2.4	5.3	5.5	5.1
Italy	636	19.4	2.3	46.5	31.4	0.5	21.7	20.8	22.7
Japan	643	32.8	5.7	45.6	15.4	0.5	38.5	37.1	39.6
Kazakhstan	567	26.6	1.1	59.3	13.0	0.0	27.7	28.3	27.1
Kuwait	549	0.4	0.4	52.1	41.6	5.6	0.8	1.5	0.0
Latvia	540	19.5	2.5	51.6	25.9	0.5	22.0	20.1	23.9
Lithuania	565	9.8	2.9	50.4	36.4	0.5	12.7	11.6	13.7
Morocco	559	3.8	0.1	45.6	46.6	3.8	4.0	2.5	5.6
Netherlands	478	12.6	0.5	75.0	11.6	0.3	13.0	10.7	14.8
New Zealand	705	16.6	0.2	64.7	18.2	0.3	16.9	17.6	16.1
Norway	578	6.6	2.5	53.9	35.2	1.8	9.0	8.7	9.3
Qatar	990	0.3	0.3	65.3	31.2	2.8	0.6	0.6	0.6
Russian Federation	633	19.9	3.3	54.3	22.2	0.3	23.2	25.5	21.2
Scotland	568	16.7	0.7	46.1	35.3	1.2	17.4	14.4	20.7
Singapore	718	22.9	13.0	60.6	3.4	0.0	35.9	36.8	35.1
Slovak Republic	705	12.0	0.6	42.2	44.4	0.8	12.6	10.9	14.1
Slovenia	622	5.7	1.8	63.2	29.0	0.3	7.5	6.4	8.7
Sweden	665	4.8	2.3	49.6	42.6	0.7	7.1	7.0	7.1
Tunisia	595	1.6	1.0	64.2	30.0	3.2	2.6	2.2	2.9
Ukraine	618	5.3	5.9	59.5	29.0	0.3	11.1	9.0	12.8
United States	1109	16.2	6.3	70.0	7.0	0.3	22.6	21.9	23.3
Yemen	834	0.3	0.0	69.3	27.5	2.9	0.3	0.6	0.0
International Avg.	636	13.0	2.5	53.2	29.9	1.4	15.5	14.7	16.1
Alberta, Canada	565	11.3	3.4	65.8	18.6	0.9	14.6	15.8	13.8
British Columbia, Canada	597	10.9	2.0	57.0	29.2	0.8	12.9	13.2	12.7
Dubai, UAE	431	10.6	3.4	59.9	24.2	1.8	14.1	11.8	16.0
Massachusetts, US	244	35.1	11.7	42.7	9.9	0.5	46.9	45.0	48.9
Minnesota, US	265	26.8	4.8	63.5	5.0	0.0	31.6	27.1	34.9
Ontario, Canada	493	10.8	1.3	70.2	17.1	0.6	12.1	13.5	10.6
Quebec, Canada	557	5.8	1.7	62.9	29.3	0.3	7.5	6.6	8.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031335 - M01\_05)  
 Label: Temperature increase at 9am  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	582	34.6	23.4	12.7	34.6	16.5	7.8	5.1	33.5	35.6
Armenia	560	64.6	13.3	4.6	64.6	11.3	5.8	0.4	66.2	63.0
Australia	583	63.9	13.7	7.4	63.9	11.3	2.1	1.6	61.4	66.5
Austria	687	70.1	16.8	3.4	70.1	6.2	2.8	0.8	67.6	72.2
Chinese Taipei	587	81.7	9.7	3.7	81.7	4.2	0.7	0.0	82.0	81.4
Colombia	667	28.9	20.1	12.1	28.9	21.3	9.3	8.4	24.4	33.0
Czech Republic	611	67.3	20.2	4.5	67.3	5.3	2.2	0.5	68.4	66.1
Denmark	490	69.4	10.5	6.5	69.4	7.5	3.1	3.0	65.9	73.5
El Salvador	596	29.6	20.5	14.7	29.6	25.5	4.6	5.2	25.3	34.8
England	593	67.3	14.6	5.7	67.3	9.9	2.4	0.2	66.6	67.8
Georgia	588	44.9	20.6	8.1	44.9	13.7	7.4	5.3	39.3	49.6
Germany	759	73.9	13.5	3.9	73.9	5.2	2.8	0.7	70.6	77.6
Hong Kong SAR	542	82.6	10.2	3.4	82.6	3.3	0.6	0.0	81.7	83.5
Hungary	578	64.6	19.5	3.7	64.6	8.4	2.5	1.3	61.3	68.3
Iran, Islamic Rep. of	554	28.1	21.0	11.8	28.1	27.7	7.9	3.4	25.4	30.9
Italy	636	59.7	19.6	5.9	59.7	9.7	4.2	0.8	54.2	65.7
Japan	643	80.8	10.7	3.8	80.8	3.3	1.0	0.5	79.6	81.8
Kazakhstan	567	65.3	23.0	4.4	65.3	6.8	0.5	0.0	62.2	68.7
Kuwait	549	23.2	18.1	19.3	23.2	21.7	10.9	6.8	22.2	24.2
Latvia	540	59.1	23.1	6.3	59.1	8.6	2.3	0.6	54.6	63.6
Lithuania	565	69.6	16.4	4.4	69.6	7.3	1.4	0.7	67.3	71.9
Morocco	539	35.2	18.2	16.3	35.2	18.8	7.1	4.4	34.4	36.5
Netherlands	478	66.7	18.7	5.2	66.7	7.4	1.4	0.6	61.3	70.8
New Zealand	705	57.7	18.0	10.3	57.7	9.9	3.5	0.5	57.2	58.3
Norway	578	51.8	18.8	8.0	51.8	14.6	4.5	2.2	52.5	51.3
Qatar	990	22.9	21.9	20.0	22.9	23.9	8.3	3.0	22.3	23.4
Russian Federation	633	72.0	15.8	4.0	72.0	5.5	2.5	0.3	75.5	68.8
Scotland	568	62.1	13.9	5.6	62.1	11.8	4.9	1.7	57.9	66.5
Singapore	718	78.8	11.6	4.1	78.8	4.9	0.7	0.0	75.5	81.7
Slovak Republic	705	63.9	17.2	3.5	63.9	10.1	4.0	1.3	62.7	64.9
Slovenia	622	63.2	14.0	4.3	63.2	14.3	3.4	1.0	61.5	64.9
Sweden	665	69.6	14.8	6.0	69.6	5.2	2.8	1.5	67.3	72.1
Tunisia	595	30.2	23.6	10.9	30.2	18.1	12.8	4.5	26.3	33.3
Ukraine	618	51.2	24.7	8.1	51.2	12.5	3.1	0.3	50.3	51.9
United States	1109	63.7	14.9	6.3	63.7	12.7	1.6	0.8	61.1	66.7
Yemen	834	35.1	13.0	18.2	35.1	22.9	7.6	3.1	27.5	40.9
International Avg.	634	57.0	17.2	7.8	57.0	11.9	4.2	2.0	54.8	59.2
Alberta, Canada	565	61.2	15.4	5.1	61.2	14.7	2.2	1.3	58.8	63.1
British Columbia, Canada	597	62.5	16.1	5.9	62.5	11.4	2.6	1.5	60.6	64.3
Dubai, UAE	431	44.1	20.2	10.7	44.1	17.7	4.9	2.5	39.7	47.8
Massachusetts, US	244	81.8	6.6	2.2	81.8	6.7	1.8	0.9	82.7	80.8
Minnesota, US	265	69.2	12.1	6.8	69.2	11.2	0.3	0.4	63.2	73.8
Ontario, Canada	493	66.7	13.7	6.4	66.7	9.6	2.2	1.4	63.1	70.3
Quebec, Canada	557	65.5	14.4	5.1	65.5	11.8	2.4	0.9	66.0	64.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031068 - M01\_06)  
 Label: Time Don, Rob, Lynn to leave school  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	609	7.7	1.4	56.2	29.5	5.1	7.7	8.3	7.2
Armenia	565	41.4	3.6	30.9	23.6	0.5	41.4	39.7	43.0
Australia	583	45.1	7.0	39.5	6.8	1.6	45.1	43.6	46.7
Austria	687	55.1	0.9	23.6	19.6	0.9	55.1	53.2	56.6
Chinese Taipei	587	61.9	1.3	30.7	6.1	0.0	61.9	58.6	65.0
Colombia	667	8.0	3.0	63.5	16.9	8.6	8.0	5.4	10.4
Czech Republic	611	39.6	2.0	37.5	20.2	0.7	39.6	39.4	39.9
Denmark	490	45.8	2.8	35.7	12.4	3.4	45.8	42.2	50.1
El Salvador	596	7.4	4.1	72.1	10.4	6.0	7.4	5.7	9.4
England	593	53.0	4.4	36.7	5.8	0.2	53.0	54.4	51.8
Georgia	588	31.4	1.3	36.0	26.0	5.3	31.4	27.9	34.3
Germany	759	59.1	2.4	24.8	12.7	1.0	59.1	58.7	59.6
Hong Kong SAR	542	64.5	2.4	28.6	4.5	0.0	64.5	60.3	68.8
Hungary	578	52.6	3.0	36.9	6.3	1.3	52.6	49.8	55.7
Iran, Islamic Rep. of	554	9.6	2.3	62.8	21.0	4.4	9.6	8.8	10.3
Italy	636	39.7	3.1	32.6	23.8	0.8	39.7	35.3	44.4
Japan	643	56.6	3.5	34.8	4.7	0.5	56.6	55.3	57.6
Kazakhstan	567	49.8	2.6	40.5	7.1	0.0	49.8	48.4	51.4
Kuwait	549	1.5	1.2	62.7	27.8	6.8	1.5	1.9	1.1
Latvia	540	58.7	2.0	27.5	11.1	0.8	58.7	57.6	59.8
Lithuania	565	55.5	1.2	28.2	14.3	0.7	55.5	56.7	54.3
Morocco	559	4.3	1.5	52.9	36.0	5.3	4.3	2.5	6.3
Netherlands	478	45.1	5.5	43.6	5.0	0.8	45.1	40.6	48.5
New Zealand	705	43.2	6.9	44.7	4.5	0.6	43.2	40.4	46.1
Norway	578	25.3	2.1	53.2	16.7	2.7	25.3	23.6	26.7
Qatar	990	0.8	2.4	72.9	20.7	3.1	0.8	0.8	0.8
Russian Federation	633	55.0	1.2	34.2	9.3	0.3	55.0	59.2	51.1
Scotland	568	48.5	7.0	38.4	4.5	1.7	48.5	41.2	56.2
Singapore	718	62.9	1.8	34.2	1.1	0.0	62.9	61.4	64.4
Slovak Republic	705	42.6	1.4	35.3	19.4	1.3	42.6	40.2	44.7
Slovenia	622	41.9	1.7	40.7	14.3	1.4	41.9	37.3	46.8
Sweden	665	49.4	1.6	32.7	14.5	1.7	49.4	47.6	51.4
Tunisia	595	4.8	1.8	65.9	22.6	5.0	4.8	2.8	6.4
Ukraine	618	34.0	0.1	48.9	16.7	0.3	34.0	33.3	34.6
United States	1109	44.7	5.0	46.7	2.7	0.9	44.7	44.1	45.3
Yemen	833	0.5	1.3	69.9	24.9	3.4	0.5	0.6	0.4
International Avg.	636	37.4	2.7	43.2	14.5	2.1	37.4	35.7	39.1
Alberta, Canada	565	42.3	4.2	47.8	4.3	1.4	42.3	40.6	43.5
British Columbia, Canada	597	41.5	4.2	43.8	8.9	1.6	41.5	40.3	42.7
Dubai, UAE	431	26.3	3.3	55.7	12.2	2.7	26.3	24.8	27.5
Massachusetts, US	244	66.9	2.6	25.9	3.3	1.3	66.9	63.9	70.1
Minnesota, US	265	51.5	2.0	44.3	1.9	0.4	51.5	47.1	54.8
Ontario, Canada	493	42.8	5.2	43.6	6.9	1.5	42.8	46.3	39.4
Quebec, Canada	557	34.2	2.3	52.3	10.2	1.1	34.2	33.4	34.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031299 - M01\_07)  
 Label: Water in bottle after pouring 250 ml  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	609	20.9	54.1	17.4	7.6	20.9	22.0	19.9
Armenia	564	45.7	33.8	19.4	1.1	45.7	48.3	43.2
Australia	583	48.4	41.8	7.1	2.7	48.4	40.1	56.8
Austria	687	60.6	18.8	19.1	1.5	60.6	53.5	66.8
Chinese Taipei	587	75.6	20.0	4.2	0.2	75.6	75.0	76.1
Colombia	667	7.5	61.9	18.0	12.5	7.5	3.1	11.6
Czech Republic	611	58.5	26.6	13.9	1.0	58.5	53.2	64.1
Denmark	490	50.0	28.1	16.7	5.2	50.0	42.9	58.4
El Salvador	596	3.1	72.0	15.9	9.0	3.1	2.1	4.3
England	593	57.7	35.3	6.4	0.5	57.7	54.0	60.8
Georgia	588	48.9	29.3	14.6	7.2	48.9	41.3	55.2
Germany	759	75.0	14.9	8.3	1.7	75.0	71.2	79.4
Hong Kong SAR	542	86.1	12.0	1.9	0.0	86.1	85.7	86.6
Hungary	578	63.4	27.9	7.2	1.5	63.4	58.4	69.0
Iran, Islamic Rep. of	554	11.5	54.6	26.7	7.1	11.5	10.6	12.4
Italy	635	41.3	37.2	19.5	1.9	41.3	34.8	48.3
Japan	643	69.1	26.2	3.6	1.0	69.1	67.3	70.6
Kazakhstan	567	74.5	21.1	4.3	0.1	74.5	74.3	74.8
Kuwait	549	5.2	58.3	25.9	10.7	5.2	4.7	5.7
Latvia	540	75.5	15.8	7.8	0.9	75.5	69.8	81.0
Lithuania	565	77.5	16.8	4.4	1.2	77.5	74.8	80.2
Morocco	559	12.0	49.0	28.5	10.5	12.0	6.8	17.5
Netherlands	478	70.3	25.6	3.1	1.0	70.3	61.9	76.6
New Zealand	705	37.2	54.3	7.2	1.2	37.2	32.9	41.7
Norway	578	32.6	45.8	18.2	3.4	32.6	22.4	40.6
Qatar	990	1.8	72.0	19.6	6.6	1.8	1.4	2.2
Russian Federation	633	74.1	19.4	5.8	0.7	74.1	69.9	78.1
Scotland	568	47.0	40.9	9.9	2.2	47.0	39.3	55.3
Singapore	718	81.5	18.0	0.5	0.0	81.5	80.1	82.7
Slovak Republic	705	47.0	37.0	14.5	1.5	47.0	40.5	52.8
Slovenia	622	37.0	47.0	14.0	1.9	37.0	28.7	45.8
Sweden	665	46.3	31.9	19.4	2.4	46.3	35.8	57.4
Tunisia	595	23.2	60.5	8.6	7.8	23.2	24.2	22.3
Ukraine	618	59.1	33.6	6.3	1.0	59.1	51.2	65.2
United States	1109	16.9	73.9	7.9	1.3	16.9	15.6	18.3
Yemen	833	2.1	70.1	22.7	5.2	2.1	2.1	2.0
International Avg.	636	45.7	38.5	12.5	3.4	45.7	41.7	49.5
Alberta, Canada	565	25.9	62.2	9.5	2.3	25.9	16.3	33.4
British Columbia, Canada	597	37.7	46.8	13.0	2.4	37.7	31.9	43.4
Dubai, UAE	431	22.8	61.6	11.6	4.0	22.8	16.8	28.0
Massachusetts, US	244	19.8	59.5	19.4	1.3	19.8	14.1	26.1
Minnesota, US	265	18.1	75.5	6.0	0.4	18.1	11.9	22.8
Ontario, Canada	493	32.4	54.5	10.9	2.1	32.4	26.2	38.5
Quebec, Canada	557	37.8	49.0	11.9	1.3	37.8	31.6	44.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031301 - M01\_08)  
 Label: Al wanted to weigh his cat  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
							V1	%Right	V1	%Right
Algeria	609	23.5	3.7	43.8	21.0	8.0	23.5	24.8	22.1	
Armenia	566	65.0	4.2	17.1	12.6	1.1	65.0	65.6	64.4	
Australia	583	61.3	4.7	26.1	5.3	2.7	61.3	59.5	63.0	
Austria	687	80.2	4.3	9.8	3.9	1.8	80.2	77.6	82.5	
Chinese Taipei	587	95.0	0.3	4.0	0.5	0.2	95.0	95.3	94.8	
Colombia	667	17.9	1.2	55.0	12.5	13.5	17.9	14.5	21.0	
Czech Republic	611	75.7	8.6	8.8	5.6	1.2	75.7	73.0	78.6	
Denmark	490	74.9	1.7	15.0	2.9	5.4	74.9	74.5	75.4	
El Salvador	596	20.8	1.0	58.4	9.8	9.9	20.8	18.0	24.2	
England	593	63.2	3.2	26.5	6.4	0.8	63.2	60.7	65.2	
Georgia	588	59.2	2.5	21.9	9.3	7.2	59.2	57.2	60.8	
Germany	759	80.2	3.9	9.1	5.0	1.7	80.2	79.0	81.6	
Hong Kong SAR	542	86.1	3.5	8.9	1.5	0.0	86.1	89.3	82.9	
Hungary	578	73.4	4.5	16.0	4.3	1.7	73.4	71.2	75.8	
Iran, Islamic Rep. of	554	42.6	3.6	34.7	10.3	8.8	42.6	42.0	43.2	
Italy	636	68.5	1.0	18.3	10.3	1.9	68.5	64.2	73.1	
Japan	643	82.9	3.4	11.4	1.2	1.1	82.9	84.2	81.8	
Kazakhstan	567	85.4	1.6	9.6	3.2	0.1	85.4	90.2	79.9	
Kuwait	549	11.8	1.3	48.8	26.7	11.4	11.8	11.0	12.5	
Latvia	540	80.0	5.4	9.9	3.8	0.9	80.0	79.5	80.5	
Lithuania	565	81.5	4.6	10.1	2.0	1.9	81.5	79.9	83.0	
Morocco	559	19.5	1.2	41.1	26.9	11.3	19.5	14.0	25.1	
Netherlands	478	85.4	2.6	9.6	1.5	1.0	85.4	82.9	87.2	
New Zealand	705	53.3	3.7	36.3	5.5	1.2	53.3	50.6	56.1	
Norway	578	66.5	3.9	20.8	5.4	3.4	66.5	61.7	70.3	
Qatar	990	8.8	1.7	64.1	18.1	7.2	8.8	7.4	10.4	
Russian Federation	633	86.4	4.1	7.5	1.2	0.8	86.4	87.1	85.7	
Scotland	568	63.7	3.8	23.0	6.8	2.7	63.7	57.9	69.9	
Singapore	718	87.1	1.5	11.1	0.3	0.0	87.1	88.3	86.0	
Slovak Republic	705	59.9	6.2	24.1	8.1	1.7	59.9	55.5	63.8	
Slovenia	622	68.7	10.9	14.7	3.7	1.9	68.7	64.5	73.2	
Sweden	665	66.5	4.6	16.6	9.9	2.5	66.5	66.3	66.6	
Tunisia	595	28.5	1.1	53.1	9.2	8.2	28.5	28.1	28.8	
Ukraine	618	68.4	4.7	19.6	6.2	1.1	68.4	68.2	68.5	
United States	1109	59.8	4.6	31.6	2.4	1.6	59.8	57.1	62.8	
Yemen	833	4.6	0.6	65.0	24.1	5.7	4.6	4.7	4.6	
International Avg.	636	59.9	3.4	25.0	8.0	3.7	59.9	58.5	61.3	
Alberta, Canada	565	60.3	6.0	28.7	2.6	2.4	60.3	54.3	64.9	
British Columbia, Canada	597	62.7	5.1	22.0	7.5	2.8	62.7	60.4	64.9	
Dubai, UAE	431	43.5	3.1	37.2	12.0	4.3	43.5	40.0	46.6	
Massachusetts, US	244	76.5	3.1	15.3	2.5	2.6	76.5	76.3	76.7	
Minnesota, US	265	68.1	4.5	23.7	2.9	0.8	68.1	60.7	73.6	
Ontario, Canada	493	58.2	6.8	28.0	4.8	2.2	58.2	54.1	62.1	
Quebec, Canada	557	69.9	1.4	20.3	7.0	1.4	69.9	70.4	69.4	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031271 - M01\_09)  
 Label: The square is cut into 7 pieces  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	607	43.8	35.7	11.4	9.2	43.8	49.1	38.5
Armenia	564	74.2	14.9	9.8	1.1	74.2	74.1	74.2
Australia	583	85.4	8.2	3.5	2.9	85.4	86.6	84.2
Austria	687	81.7	9.7	6.8	1.8	81.7	81.6	81.8
Chinese Taipei	587	81.4	15.5	3.0	0.2	81.4	84.2	78.7
Colombia	667	59.0	16.0	9.9	15.1	59.0	63.5	55.0
Czech Republic	611	82.9	9.9	5.9	1.3	82.9	84.8	80.9
Denmark	490	88.2	4.8	1.5	5.4	88.2	90.0	86.1
El Salvador	596	49.6	27.1	11.7	11.6	49.6	52.8	45.7
England	593	87.8	9.5	1.7	1.0	87.8	88.8	87.0
Georgia	588	58.6	17.0	16.2	8.2	58.6	56.0	60.7
Germany	759	75.9	15.7	6.2	2.2	75.9	75.1	76.8
Hong Kong SAR	542	91.1	8.6	0.3	0.0	91.1	93.6	88.5
Hungary	578	80.9	14.7	2.5	1.9	80.9	78.6	83.6
Iran, Islamic Rep. of	554	57.7	23.0	10.1	9.2	57.7	57.5	57.9
Italy	636	86.7	7.8	3.2	2.3	86.7	84.1	89.5
Japan	643	87.1	10.5	1.0	1.4	87.1	88.6	86.0
Kazakhstan	567	77.1	17.6	5.1	0.2	77.1	80.3	73.3
Kuwait	549	39.8	25.1	22.2	12.9	39.8	49.7	29.1
Latvia	540	80.9	16.7	1.4	1.0	80.9	80.7	81.1
Lithuania	565	89.0	7.2	1.9	1.9	89.0	91.8	86.3
Morocco	558	38.8	28.9	20.6	11.7	38.8	41.6	36.2
Netherlands	478	78.9	18.2	1.9	1.0	78.9	78.2	79.4
New Zealand	705	80.7	10.5	7.3	1.5	80.7	83.4	78.0
Norway	578	83.6	9.4	3.2	3.8	83.6	83.5	83.6
Qatar	990	31.7	34.9	26.1	7.3	31.7	37.3	26.0
Russian Federation	633	80.7	15.8	2.4	1.1	80.7	78.4	82.9
Scotland	568	87.8	7.4	2.0	2.8	87.8	90.8	84.6
Singapore	718	87.6	10.6	1.9	0.0	87.6	91.5	84.0
Slovak Republic	705	83.8	10.6	3.7	1.8	83.8	81.8	85.7
Slovenia	622	90.9	4.0	2.4	2.6	90.9	93.3	88.4
Sweden	665	86.3	7.3	3.5	2.8	86.3	85.6	87.1
Tunisia	595	37.5	41.9	11.2	9.5	37.5	42.0	33.8
Ukraine	618	67.3	21.3	9.6	1.7	67.3	69.7	65.4
United States	1109	85.3	10.2	2.8	1.7	85.3	86.1	84.4
Yemen	834	13.3	42.1	38.2	6.4	13.3	15.7	11.4
International Avg.	636	72.0	16.3	7.6	4.1	72.0	73.6	70.4
Alberta, Canada	565	83.4	9.9	3.8	2.9	83.4	81.6	84.8
British Columbia, Canada	597	86.2	7.2	3.6	3.0	86.2	87.7	84.7
Dubai, UAE	431	67.3	19.5	9.0	4.3	67.3	75.8	59.8
Massachusetts, US	244	85.4	9.3	2.4	2.9	85.4	84.2	86.7
Minnesota, US	265	89.9	7.0	2.2	0.8	89.9	92.4	88.0
Ontario, Canada	493	89.6	4.2	2.8	3.4	89.6	90.4	88.8
Quebec, Canada	557	80.4	16.6	1.3	1.6	80.4	81.7	78.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M031134 - M01\_10)  
 Label: Jasmin's tally chart  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	608	10.0	2.1	18.1	38.9	19.7	11.2	10.0	8.1	11.9
Armenia	564	28.5	6.3	0.8	35.7	27.2	1.6	28.5	30.9	26.2
Australia	583	34.3	5.1	37.2	11.8	8.4	3.2	34.3	35.8	32.8
Austria	688	30.0	5.4	31.5	1.8	28.8	2.5	30.0	34.2	26.3
Chinese Taipei	587	62.4	3.7	5.4	23.6	4.4	0.4	62.4	69.5	55.8
Colombia	667	9.1	1.7	34.4	15.1	21.6	18.2	9.1	7.6	10.4
Czech Republic	611	24.3	2.3	45.2	4.3	21.5	2.5	24.3	27.2	21.1
Denmark	490	45.2	4.0	15.0	14.2	15.5	6.0	45.2	45.6	44.8
El Salvador	596	6.7	2.1	31.3	25.7	20.1	14.0	6.7	7.8	5.3
England	593	43.6	4.5	31.6	9.9	9.1	1.3	43.6	45.9	41.8
Georgia	588	9.0	1.9	31.2	20.3	28.8	8.8	9.0	8.2	9.6
Germany	759	40.2	7.0	25.6	6.0	18.4	2.8	40.2	43.0	37.1
Hong Kong SAR	542	34.1	4.5	38.1	15.2	8.1	0.0	34.1	35.6	32.6
Hungary	578	25.0	3.2	53.7	4.8	11.0	2.3	25.0	26.9	22.9
Iran, Islamic Rep. of	554	5.3	1.5	30.7	23.0	28.4	11.2	5.3	5.6	5.1
Italy	636	35.9	2.5	17.5	15.8	25.8	2.4	35.9	38.1	33.6
Japan	643	60.4	6.9	11.1	17.6	2.6	1.4	60.4	65.2	56.4
Kazakhstan	567	44.9	3.6	15.9	26.4	9.0	0.2	44.9	47.8	41.6
Kuwait	549	3.4	0.8	17.5	36.5	27.5	14.2	3.4	3.8	3.1
Latvia	540	27.6	2.9	26.5	28.3	13.5	1.2	27.6	30.1	25.3
Lithuania	565	35.6	7.7	39.0	1.9	13.6	2.1	35.6	40.1	31.3
Morocco	559	11.3	0.8	17.8	32.5	24.1	13.5	11.3	6.8	15.8
Netherlands	478	16.3	2.2	59.4	16.6	4.5	1.0	16.3	16.7	16.0
New Zealand	705	30.2	4.1	37.7	16.1	9.5	2.5	30.2	31.8	28.4
Norway	578	36.3	6.2	24.9	10.8	17.6	4.1	36.3	41.7	32.2
Qatar	989	6.9	1.0	26.1	37.1	19.3	9.6	6.9	9.0	4.7
Russian Federation	633	43.4	5.4	31.4	11.2	7.1	1.5	43.4	49.5	37.8
Scotland	568	32.5	5.0	41.2	7.7	10.5	3.2	32.5	33.2	31.8
Singapore	718	41.2	4.6	42.9	8.8	2.5	0.0	41.2	44.9	37.9
Slovak Republic	705	18.6	1.4	49.3	17.3	11.0	2.3	18.6	20.7	16.7
Slovenia	622	19.8	2.7	47.1	15.5	11.5	3.5	19.8	21.0	18.5
Sweden	665	44.5	5.3	10.1	17.3	19.5	3.4	44.5	46.2	42.6
Tunisia	595	10.5	2.3	29.9	27.6	17.5	12.2	10.5	8.9	11.8
Ukraine	618	15.3	1.9	39.9	23.4	17.3	2.1	15.3	18.1	13.1
United States	1109	52.1	10.0	29.9	3.2	2.7	2.1	52.1	55.8	48.0
Yemen	834	0.8	0.4	11.1	56.7	22.8	8.2	0.8	1.1	0.6
International Avg.	636	27.7	3.7	29.3	18.8	15.6	4.9	27.7	29.5	25.9
Alberta, Canada	565	36.5	6.4	44.2	3.7	5.3	3.9	36.5	36.2	36.8
British Columbia, Canada	597	29.4	5.6	42.9	6.8	11.1	4.1	29.4	32.7	26.2
Dubai, UAE	431	21.9	3.9	23.5	32.7	13.2	4.8	21.9	24.4	19.7
Massachusetts, US	244	68.6	8.8	15.1	1.1	2.6	3.7	68.6	71.0	65.9
Minnesota, US	265	65.2	7.9	22.2	1.2	2.3	1.3	65.2	66.5	64.1
Ontario, Canada	493	44.5	9.8	32.5	5.2	4.0	4.0	44.5	46.2	42.8
Quebec, Canada	557	27.0	5.7	36.3	12.4	16.8	1.7	27.0	30.5	23.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M031045 - M01\_11)  
 Label: Types of trees in pie charts  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	22.1	22.1	7.2	20.1	7.6	25.9	17.1	21.7	22.5
Armenia	557	67.1	67.1	7.1	8.8	5.4	9.0	2.7	71.2	63.3
Australia	583	76.2	76.2	5.7	6.7	1.8	5.7	3.9	79.6	72.9
Austria	687	72.4	72.4	5.2	10.4	2.3	5.5	4.2	74.7	70.4
Chinese Taipei	587	88.0	88.0	3.4	1.4	2.6	3.7	0.9	90.3	85.8
Colombia	667	31.5	31.5	10.6	17.4	5.5	12.5	22.5	28.3	34.5
Czech Republic	611	66.0	66.0	6.1	9.5	4.1	9.4	4.9	64.6	67.4
Denmark	476	67.7	67.7	4.7	4.2	2.8	11.3	9.3	69.0	66.2
El Salvador	596	26.8	26.8	14.5	19.2	8.6	13.0	18.0	25.0	28.9
England	593	76.4	76.4	8.3	7.0	2.1	4.1	2.1	78.3	74.9
Georgia	588	46.4	46.4	11.7	15.6	7.5	8.0	10.8	43.4	48.9
Germany	759	74.5	74.5	5.4	7.0	3.0	5.7	4.4	75.3	73.5
Hong Kong SAR	542	91.8	91.8	3.8	0.9	2.5	1.0	0.0	93.9	89.6
Hungary	578	62.5	62.5	6.6	15.6	3.9	7.9	3.4	63.0	62.0
Iran, Islamic Rep. of	553	37.8	37.8	8.4	21.0	6.2	11.2	15.3	40.3	35.4
Italy	635	71.8	71.8	9.0	8.7	4.0	2.0	4.5	68.8	75.0
Japan	643	91.5	91.5	2.7	2.1	1.3	0.9	1.5	92.4	90.7
Kazakhstan	567	74.8	74.8	6.1	13.5	4.8	0.5	0.2	76.6	72.8
Kuwait	549	22.5	22.5	8.7	22.7	11.2	17.4	17.5	24.2	20.7
Latvia	540	78.2	78.2	5.4	5.2	2.4	6.2	2.6	81.1	75.3
Lithuania	565	79.1	79.1	5.0	6.5	2.4	4.7	2.2	79.1	79.2
Morocco	511	19.1	19.1	5.9	24.2	6.2	25.2	19.4	20.1	17.8
Netherlands	478	84.3	84.3	3.5	3.5	3.4	4.0	1.4	85.1	83.7
New Zealand	705	71.6	71.6	6.0	10.1	3.6	5.1	3.8	74.2	68.8
Norway	578	58.1	58.1	8.7	10.2	4.0	10.9	8.1	61.8	55.2
Qatar	990	16.4	16.4	10.0	23.9	9.7	27.7	12.3	18.6	14.1
Russian Federation	633	79.8	79.8	3.2	8.1	2.9	3.8	2.3	82.8	77.0
Scotland	568	72.7	72.7	5.4	7.9	3.2	6.3	4.5	69.5	76.3
Singapore	718	89.8	89.8	2.8	4.6	2.2	0.6	0.0	92.9	86.9
Slovak Republic	705	64.6	64.6	6.5	12.7	3.9	8.6	3.8	64.4	64.7
Slovenia	622	66.4	66.4	8.0	9.6	5.4	4.8	5.8	68.7	64.0
Sweden	665	72.6	72.6	6.5	6.3	3.3	5.5	5.8	72.9	72.2
Tunisia	595	20.8	20.8	7.6	14.2	5.4	37.2	14.8	22.1	19.8
Ukraine	618	60.3	60.3	10.8	14.2	6.2	4.5	4.1	60.5	60.1
United States	1109	84.8	84.8	5.2	4.2	2.3	1.2	2.4	85.5	83.9
Yemen	833	11.9	11.9	8.2	28.6	12.6	28.6	10.2	11.3	12.3
International Avg.	632	61.1	61.1	6.8	11.3	4.6	9.4	6.8	62.0	60.2
Alberta, Canada	565	77.2	77.2	6.2	7.2	2.5	2.9	4.0	80.0	75.0
British Columbia, Canada	597	77.0	77.0	5.6	6.3	1.3	4.0	5.8	81.6	72.5
Dubai, UAE	431	55.7	55.7	7.9	15.2	6.1	8.0	7.1	61.5	50.7
Massachusetts, US	244	88.0	88.0	3.4	1.4	1.5	1.5	4.2	89.5	86.3
Minnesota, US	265	85.9	85.9	6.8	2.4	3.2	0.5	1.3	84.8	86.8
Ontario, Canada	493	82.1	82.1	3.6	3.9	0.9	5.5	4.0	82.6	81.7
Quebec, Canada	557	71.8	71.8	7.3	9.7	2.2	5.1	3.9	74.9	68.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041014 - M02\_01)  
 Label: Arranging numbers in order  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	507	29.2	40.4	5.0	10.6	29.2	9.9	4.9	29.7	28.7
Armenia	557	80.6	5.2	3.0	4.6	80.6	6.4	0.1	80.8	80.5
Australia	592	81.2	9.6	0.9	4.6	81.2	3.6	0.2	83.2	79.2
Austria	698	83.6	8.7	0.7	3.0	83.6	3.3	0.7	85.7	81.7
Chinese Taipei	588	92.7	2.6	0.3	2.7	92.7	1.6	0.0	92.1	93.3
Colombia	684	50.1	17.7	5.8	9.5	50.1	8.8	8.0	49.0	51.0
Czech Republic	611	77.7	14.6	0.4	2.5	77.7	4.0	0.7	83.3	71.8
Denmark	507	74.5	13.1	0.9	6.5	74.5	4.7	0.3	78.2	71.0
El Salvador	599	44.3	21.6	5.9	18.3	44.3	5.5	4.4	45.0	43.5
England	593	81.5	9.6	1.8	3.3	81.5	3.6	0.1	85.6	77.9
Georgia	597	69.7	11.2	3.5	7.8	69.7	6.7	1.1	74.4	65.4
Germany	753	82.9	9.9	0.3	3.0	82.9	3.8	0.0	83.4	82.4
Hong Kong SAR	544	94.6	2.0	0.3	2.6	94.6	0.5	0.0	93.8	95.3
Hungary	580	79.2	8.9	2.9	3.7	79.2	4.4	0.9	76.8	81.7
Iran, Islamic Rep. of	554	48.5	22.4	7.2	10.3	48.5	9.6	2.0	52.3	44.8
Italy	632	80.5	11.9	1.5	4.6	80.5	1.0	0.5	77.8	83.0
Japan	646	86.5	9.5	0.1	0.5	86.5	3.2	0.2	87.9	85.2
Kazakhstan	573	87.9	4.9	1.0	5.8	87.9	0.3	0.1	87.7	88.1
Kuwait	539	37.4	23.0	8.5	17.2	37.4	11.7	2.1	42.9	31.9
Latvia	547	85.2	7.3	0.2	3.9	85.2	2.6	0.8	86.0	84.5
Lithuania	568	70.4	16.7	1.3	6.2	70.4	5.2	0.2	72.2	68.9
Morocco	496	17.4	45.6	9.4	16.0	17.4	7.4	4.1	16.9	18.0
Netherlands	485	79.7	14.1	1.0	3.3	79.7	2.0	0.0	83.7	76.0
New Zealand	702	71.9	16.0	2.0	4.4	71.9	4.6	1.1	71.7	72.1
Norway	597	61.7	21.4	2.2	7.0	61.7	5.8	1.8	62.8	60.8
Qatar	1008	33.9	22.3	13.0	20.3	33.9	9.4	1.2	35.1	32.6
Russian Federation	630	86.2	5.9	0.4	4.2	86.2	3.1	0.1	88.6	83.7
Scotland	550	77.6	12.4	0.9	4.7	77.6	4.2	0.3	74.9	80.5
Singapore	723	94.4	2.8	0.4	2.1	94.4	0.3	0.0	94.9	94.0
Slovak Republic	704	84.3	8.7	0.4	2.9	84.3	3.5	0.2	86.0	82.9
Slovenia	608	83.3	8.4	1.2	3.7	83.3	2.5	0.9	83.9	82.7
Sweden	673	77.4	12.3	1.4	3.7	77.4	3.9	1.3	77.0	77.7
Tunisia	589	39.1	15.9	4.6	13.1	39.1	23.0	4.2	42.9	36.1
Ukraine	616	74.2	10.5	3.0	7.8	74.2	3.3	1.2	76.1	72.7
United States	1112	84.8	9.7	0.7	3.5	84.8	0.9	0.4	85.5	83.9
Yemen	829	20.9	16.5	13.7	30.1	20.9	17.6	1.3	22.9	19.3
International Avg.	633	69.6	13.7	2.9	7.2	69.6	5.3	1.3	70.9	68.4
Alberta, Canada	578	83.1	10.1	0.6	3.3	83.1	2.0	0.8	85.5	81.0
British Columbia, Canada	583	79.9	9.1	1.2	3.7	79.9	5.8	0.3	83.2	76.3
Dubai, UAE	427	68.3	16.6	2.3	5.3	68.3	6.8	0.7	70.8	66.3
Massachusetts, US	239	87.8	8.4	0.0	2.6	87.8	0.3	0.9	82.3	94.2
Minnesota, US	267	76.5	16.5	1.0	4.3	76.5	1.3	0.4	76.7	76.2
Ontario, Canada	495	84.9	9.0	0.4	2.0	84.9	3.1	0.5	87.1	83.2
Quebec, Canada	541	83.7	7.8	0.5	3.9	83.7	3.1	1.0	81.4	85.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041039 - M02\_02)  
 Label: Number of tables needed  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	39.1	26.9	39.1	13.2	7.5	7.8	5.5	37.8	40.2
Armenia	565	73.1	15.9	73.1	3.8	4.3	2.8	0.1	72.0	74.2
Australia	592	53.8	28.7	53.8	4.9	10.2	2.2	0.2	56.2	51.5
Austria	698	52.9	40.4	52.9	1.7	1.5	2.8	0.7	49.5	56.0
Chinese Taipei	588	81.8	16.3	81.8	0.3	1.2	0.4	0.0	80.4	83.1
Colombia	684	29.1	29.3	29.1	8.0	13.2	10.6	9.7	26.4	31.7
Czech Republic	611	62.2	29.5	62.2	1.5	3.5	2.4	0.8	59.4	65.3
Denmark	510	48.1	32.2	48.1	5.6	7.1	6.9	0.3	43.0	53.0
El Salvador	599	25.4	29.9	25.4	10.5	19.9	9.6	4.6	23.9	27.3
England	593	63.4	25.7	63.4	2.3	5.9	2.6	0.2	61.9	64.6
Georgia	597	66.2	20.1	66.2	4.9	5.1	2.5	1.2	63.4	68.9
Germany	753	60.8	27.0	60.8	4.7	4.4	3.0	0.2	59.3	62.5
Hong Kong SAR	544	80.4	17.4	80.4	0.8	1.0	0.5	0.0	81.6	79.2
Hungary	580	65.1	22.0	65.1	4.2	4.9	2.9	0.9	63.4	66.7
Iran, Islamic Rep. of	554	41.9	25.5	41.9	10.7	10.1	9.5	2.2	39.1	44.7
Italy	639	53.0	38.7	53.0	2.4	3.4	1.9	0.6	46.9	59.1
Japan	646	74.2	19.9	74.2	2.4	2.3	1.0	0.2	75.6	72.9
Kazakhstan	573	70.5	21.5	70.5	3.8	3.9	0.2	0.1	70.4	70.6
Kuwait	539	30.6	35.8	30.6	12.8	9.0	9.5	2.3	32.5	28.7
Latvia	547	77.8	15.6	77.8	1.6	3.3	0.9	0.8	75.1	80.3
Lithuania	568	70.9	22.3	70.9	3.2	2.4	0.7	0.5	66.5	74.6
Morocco	531	38.2	25.3	38.2	18.5	8.4	5.6	4.0	38.5	38.0
Netherlands	485	79.9	12.2	79.9	3.1	2.7	1.9	0.3	81.7	78.2
New Zealand	702	49.8	27.1	49.8	6.6	11.7	3.7	1.1	50.1	49.5
Norway	597	45.6	33.4	45.6	7.1	7.8	4.2	1.9	46.0	45.2
Qatar	1008	36.0	29.1	36.0	15.3	11.9	6.6	1.2	37.0	34.9
Russian Federation	630	78.2	17.1	78.2	1.4	2.2	1.0	0.1	80.9	75.1
Scotland	550	59.9	30.5	59.9	2.8	3.2	3.2	0.4	60.7	59.0
Singapore	723	78.3	18.9	78.3	0.6	1.9	0.3	0.0	80.2	76.4
Slovak Republic	704	72.6	17.7	72.6	3.9	1.3	4.1	0.4	69.9	74.8
Slovenia	608	68.6	21.8	68.6	4.2	3.4	1.1	0.9	66.9	70.3
Sweden	673	31.9	45.8	31.9	4.0	12.1	4.7	1.5	30.1	33.8
Tunisia	589	41.1	21.0	41.1	9.9	5.7	18.0	4.3	40.8	41.4
Ukraine	616	59.8	28.2	59.8	5.5	3.3	1.9	1.3	55.1	63.6
United States	1112	65.3	27.1	65.3	2.0	3.7	1.4	0.5	65.1	65.6
Yemen	829	27.7	17.0	27.7	24.0	15.8	14.3	1.3	27.9	27.6
International Avg.	636	57.0	25.4	57.0	5.9	6.1	4.2	1.4	56.0	58.0
Alberta, Canada	578	54.9	31.9	54.9	4.3	5.5	2.5	0.8	51.4	58.1
British Columbia, Canada	583	51.7	31.2	51.7	4.4	7.5	4.9	0.3	50.8	52.7
Dubai, UAE	427	46.8	33.1	46.8	4.6	9.2	5.0	1.2	41.9	51.0
Massachusetts, US	239	73.1	21.2	73.1	0.4	2.4	2.0	0.9	69.6	77.3
Minnesota, US	267	69.6	21.6	69.6	3.4	3.8	1.3	0.4	66.2	72.9
Ontario, Canada	495	42.5	40.9	42.5	5.2	8.9	2.1	0.5	35.4	48.0
Quebec, Canada	541	60.7	28.7	60.7	3.3	4.1	2.2	1.0	58.4	62.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041278 - M02\_03)  
 Label: Multiply 53 and 26  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT	1.GIRL %Right	2.BOY %Right	
						REACH ED			
Algeria	593	40.0	6.8	35.4	11.2	6.5	40.0	43.4	37.2
Armenia	570	79.1	2.1	13.5	5.1	0.1	79.1	77.3	80.8
Australia	592	8.9	18.0	59.1	13.8	0.3	8.9	10.3	7.6
Austria	698	75.4	0.6	22.2	1.2	0.7	75.4	78.8	72.3
Chinese Taipei	588	87.6	0.5	11.4	0.5	0.0	87.6	87.3	88.0
Colombia	684	30.0	6.3	37.6	13.4	12.6	30.0	29.6	30.4
Czech Republic	611	27.9	18.9	42.2	9.7	1.2	27.9	32.2	23.3
Denmark	509	13.7	12.5	55.1	18.2	0.5	13.7	14.1	13.4
El Salvador	599	15.6	3.0	60.5	15.4	5.3	15.6	16.0	15.2
England	593	28.4	12.7	52.4	6.4	0.2	28.4	27.3	29.4
Georgia	599	57.0	4.5	32.1	4.6	2.0	57.0	57.3	56.7
Germany	753	40.8	12.3	39.9	6.7	0.3	40.8	45.7	35.5
Hong Kong SAR	544	76.4	1.3	20.8	1.5	0.0	76.4	75.5	77.4
Hungary	580	62.8	3.1	28.9	3.8	1.4	62.8	64.4	61.3
Iran, Islamic Rep. of	554	39.2	6.5	40.1	11.4	2.8	39.2	42.6	35.9
Italy	640	63.7	3.6	24.8	6.8	0.9	63.7	62.4	65.1
Japan	646	66.6	5.4	26.4	1.4	0.2	66.6	69.0	64.4
Kazakhstan	573	78.0	2.3	18.7	0.8	0.1	78.0	79.9	76.2
Kuwait	539	10.5	18.5	50.7	17.9	2.4	10.5	10.5	10.5
Latvia	547	56.9	4.6	35.2	2.5	0.8	56.9	62.8	51.6
Lithuania	568	64.8	7.0	25.3	2.3	0.5	64.8	68.5	61.7
Morocco	560	35.3	7.8	36.5	16.4	4.0	35.3	38.0	32.2
Netherlands	485	12.2	22.9	62.3	2.2	0.3	12.2	10.9	13.4
New Zealand	702	6.3	15.3	61.4	15.4	1.5	6.3	4.4	8.3
Norway	597	1.9	9.1	62.6	23.9	2.4	1.9	1.3	2.5
Qatar	1008	3.6	11.0	62.7	21.2	1.5	3.6	3.8	3.3
Russian Federation	630	71.5	3.9	21.1	3.4	0.1	71.5	72.8	70.0
Scotland	550	3.7	29.9	50.5	15.4	0.4	3.7	4.5	2.9
Singapore	723	79.8	2.0	17.9	0.3	0.0	79.8	83.2	76.4
Slovak Republic	704	53.5	14.7	26.3	5.1	0.4	53.5	52.3	54.5
Slovenia	608	11.8	20.1	57.7	9.6	0.9	11.8	13.1	10.3
Sweden	673	4.2	22.2	51.9	19.9	1.8	4.2	3.2	5.2
Tunisia	589	48.4	5.2	32.0	9.6	4.8	48.4	53.0	44.7
Ukraine	616	56.9	5.4	32.2	4.2	1.3	56.9	54.8	58.6
United States	1112	50.0	9.6	38.4	1.5	0.5	50.0	51.9	47.8
Yemen	829	5.7	7.8	58.3	26.9	1.4	5.7	6.6	5.0
International Avg.	638	40.8	9.4	39.0	9.2	1.7	40.8	41.9	39.7
Alberta, Canada	578	9.3	21.6	58.7	9.6	0.8	9.3	9.0	9.6
British Columbia, Canada	583	13.3	17.5	55.4	13.6	0.3	13.3	13.0	13.5
Dubai, UAE	427	38.1	8.9	43.3	8.5	1.2	38.1	44.9	32.3
Massachusetts, US	239	58.4	6.8	33.3	0.5	0.9	58.4	55.6	61.7
Minnesota, US	267	53.8	8.3	35.7	1.8	0.4	53.8	59.3	48.3
Ontario, Canada	495	8.5	16.5	60.8	13.6	0.5	8.5	6.6	10.0
Quebec, Canada	541	18.2	20.6	50.7	9.4	1.2	18.2	19.0	17.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041006 - M02\_04)  
 Label: Fraction of the rectangle shaded  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	17.6	4.2	17.6	57.9	2.9	9.9	7.4	19.6	16.0
Armenia	566	55.7	5.5	55.7	27.7	3.1	7.7	0.4	59.5	52.1
Australia	592	56.4	5.1	56.4	31.3	2.8	4.0	0.3	53.8	58.9
Austria	698	32.7	11.0	32.7	33.8	9.8	11.9	0.8	28.6	36.4
Chinese Taipei	588	51.4	1.1	51.4	42.3	4.5	0.8	0.0	50.4	52.4
Colombia	684	7.7	5.6	7.7	61.8	3.6	6.6	14.7	6.4	8.9
Czech Republic	611	23.2	18.2	23.2	28.1	7.9	21.4	1.3	25.0	21.1
Denmark	510	59.4	3.5	59.4	28.3	4.1	4.2	0.5	52.4	66.0
El Salvador	599	10.6	11.0	10.6	58.5	4.8	8.0	7.2	10.5	10.6
England	593	55.2	8.3	55.2	28.9	5.5	1.9	0.2	49.9	59.8
Georgia	599	25.9	5.8	25.9	53.4	4.9	7.4	2.6	20.4	30.9
Germany	753	36.6	15.9	36.6	21.6	9.7	15.9	0.3	32.5	41.0
Hong Kong SAR	544	81.8	1.3	81.8	11.3	5.1	0.5	0.0	83.4	80.3
Hungary	580	48.9	3.8	48.9	33.6	10.0	2.1	1.5	46.6	51.3
Iran, Islamic Rep. of	554	20.2	6.5	20.2	55.5	3.9	10.4	3.5	17.5	22.8
Italy	638	32.9	3.5	32.9	55.3	2.9	4.1	1.3	29.0	36.7
Japan	646	39.2	2.0	39.2	50.7	5.5	2.3	0.3	40.4	38.1
Kazakhstan	573	66.2	5.4	66.2	23.3	4.8	0.3	0.1	63.5	68.8
Kuwait	539	21.8	6.0	21.8	56.9	4.7	7.5	3.2	22.1	21.5
Latvia	547	47.9	1.8	47.9	38.6	7.0	3.6	1.0	39.9	55.2
Lithuania	568	36.5	2.6	36.5	51.2	6.2	2.7	0.8	33.9	38.7
Morocco	530	20.7	5.8	20.7	38.6	6.3	22.3	6.4	18.3	23.0
Netherlands	485	63.0	3.3	63.0	24.4	7.6	1.5	0.3	55.7	69.6
New Zealand	702	47.2	6.6	47.2	36.0	5.1	3.5	1.7	45.7	48.7
Norway	597	37.8	5.1	37.8	41.0	5.8	7.6	2.8	35.3	40.0
Qatar	1008	16.2	12.4	16.2	52.8	5.8	10.2	2.6	14.4	18.0
Russian Federation	630	62.4	6.1	62.4	22.8	4.0	4.6	0.1	65.1	59.5
Scotland	550	49.3	7.5	49.3	33.4	6.1	2.7	0.9	45.4	53.3
Singapore	723	76.3	2.5	76.3	17.7	2.8	0.7	0.0	78.9	73.8
Slovak Republic	704	43.9	9.0	43.9	30.0	8.0	8.8	0.4	41.7	45.7
Slovenia	608	53.7	4.3	53.7	28.2	9.8	2.9	1.1	51.1	56.6
Sweden	672	57.0	3.7	57.0	28.0	6.3	3.0	2.0	53.8	60.3
Tunisia	589	14.1	5.1	14.1	38.4	6.1	30.9	5.4	13.3	14.6
Ukraine	616	40.2	7.0	40.2	41.7	7.1	2.6	1.3	38.1	42.0
United States	1112	48.6	1.6	48.6	45.3	2.1	1.9	0.5	46.6	50.8
Yemen	829	12.8	3.7	12.8	65.0	4.1	12.5	1.9	15.8	10.4
International Avg.	636	40.8	5.9	40.8	38.7	5.6	6.9	2.1	39.0	42.6
Alberta, Canada	578	40.5	2.2	40.5	51.5	1.4	3.5	0.9	37.0	43.7
British Columbia, Canada	583	45.8	3.8	45.8	41.5	2.1	6.1	0.7	44.2	47.5
Dubai, UAE	427	31.7	3.0	31.7	57.5	2.4	3.9	1.4	26.5	36.1
Massachusetts, US	239	67.0	0.9	67.0	24.0	6.0	1.2	0.9	64.7	69.8
Minnesota, US	267	64.3	1.4	64.3	30.3	3.1	0.5	0.4	59.3	69.2
Ontario, Canada	495	50.9	4.7	50.9	37.8	4.0	2.0	0.6	44.7	55.7
Quebec, Canada	541	63.2	2.4	63.2	29.3	1.7	1.7	1.7	66.1	60.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041250 - M02\_05)  
 Label: Subtract 5.3 - 3.8  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
-----										
Algeria	595	32.6	6.2	8.6	35.7	8.2	8.6	32.6	33.5	31.9
Armenia	571	64.8	1.5	0.3	16.9	16.0	0.6	64.8	63.2	66.3
Australia	592	37.6	20.8	4.5	25.1	11.7	0.3	37.6	32.7	42.4
Austria	698	42.6	3.9	22.8	16.2	13.4	1.1	42.6	43.1	42.1
Chinese Taipei	588	94.8	0.0	0.9	3.5	0.7	0.0	94.8	94.6	95.0
Colombia	684	15.8	3.6	19.4	32.9	13.0	15.3	15.8	14.3	17.2
Czech Republic	611	25.3	14.6	5.0	25.4	28.0	1.8	25.3	23.0	27.7
Denmark	509	51.7	19.4	4.1	15.6	8.6	0.5	51.7	57.8	45.8
El Salvador	599	9.2	2.9	13.2	50.4	16.0	8.2	9.2	8.9	9.5
England	593	51.8	17.9	1.5	20.5	8.1	0.2	51.8	50.8	52.7
Georgia	599	30.4	2.8	26.7	14.8	22.3	3.0	30.4	30.9	29.8
Germany	753	56.8	12.7	4.9	11.8	13.3	0.5	56.8	56.6	57.0
Hong Kong SAR	544	81.2	4.2	0.2	12.6	1.7	0.0	81.2	79.8	82.6
Hungary	580	35.8	9.0	15.3	25.3	12.8	1.8	35.8	30.1	41.5
Iran, Islamic Rep. of	554	12.0	2.2	25.8	29.6	25.7	4.6	12.0	14.0	10.1
Italy	640	69.2	2.7	10.7	9.0	6.8	1.5	69.2	65.6	72.8
Japan	646	90.2	1.9	2.7	4.0	0.9	0.3	90.2	91.8	88.8
Kazakhstan	573	85.6	2.5	3.9	6.4	1.4	0.1	85.6	85.5	85.8
Kuwait	539	2.5	1.4	29.5	42.3	20.7	3.6	2.5	3.0	1.9
Latvia	547	62.4	10.8	4.9	12.5	8.4	1.0	62.4	59.9	64.6
Lithuania	568	68.4	7.3	7.6	11.4	4.4	0.9	68.4	69.8	67.2
Morocco	559	30.4	9.7	7.2	30.7	15.5	6.4	30.4	31.1	29.4
Netherlands	485	56.5	11.2	2.1	24.9	5.0	0.3	56.5	51.5	61.1
New Zealand	702	23.1	23.5	1.3	36.4	14.2	1.7	23.1	20.2	26.1
Norway	597	26.0	13.7	3.2	30.4	23.6	3.1	26.0	25.1	26.8
Qatar	1008	3.7	2.7	20.7	52.4	17.5	3.0	3.7	4.9	2.5
Russian Federation	630	62.8	3.9	8.0	12.6	12.5	0.2	62.8	67.1	58.0
Scotland	550	34.7	16.4	5.8	25.6	16.1	1.4	34.7	33.1	36.4
Singapore	723	94.1	0.9	1.1	3.0	0.9	0.0	94.1	95.7	92.5
Slovak Republic	704	30.7	15.4	7.8	28.0	17.5	0.6	30.7	25.3	35.1
Slovenia	608	19.7	8.7	14.4	40.7	14.8	1.7	19.7	16.4	23.2
Sweden	672	27.3	17.1	2.5	27.3	23.6	2.3	27.3	22.7	32.1
Tunisia	589	12.7	1.6	27.2	33.2	18.9	6.4	12.7	11.8	13.4
Ukraine	616	58.0	6.1	10.7	15.2	8.7	1.3	58.0	59.6	56.6
United States	1112	68.0	10.2	5.2	13.0	3.0	0.7	68.0	72.1	63.2
Yemen	829	9.6	1.2	8.8	55.8	22.7	2.0	9.6	11.5	8.0
-----										
International Avg.	638	43.8	8.1	9.4	23.6	12.7	2.4	43.8	43.3	44.4
-----										
Alberta, Canada	578	44.6	13.6	8.7	23.3	8.4	1.3	44.6	47.7	41.9
British Columbia, Canada	583	46.7	13.6	8.4	18.4	12.2	0.7	46.7	47.6	45.8
Dubai, UAE	427	42.6	8.0	15.0	25.6	7.2	1.5	42.6	43.1	42.2
Massachusetts, US	239	73.1	8.3	1.9	13.0	2.3	1.5	73.1	73.9	72.1
Minnesota, US	267	76.4	7.2	3.2	11.0	1.7	0.4	76.4	77.8	75.1
Ontario, Canada	495	33.4	18.6	7.7	30.9	7.9	1.5	33.4	35.5	31.7
Quebec, Canada	541	56.4	6.6	12.0	16.2	6.7	2.1	56.4	60.1	52.7
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041094 - M02\_06)  
 Label: How much money has Bob left with  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	22.5	22.5	14.4	29.5	12.4	11.3	9.9	20.6	24.0
Armenia	553	42.7	42.7	9.8	17.2	5.6	24.1	0.6	42.7	42.6
Australia	592	34.9	34.9	28.5	30.7	1.4	4.1	0.4	37.5	32.3
Austria	698	44.9	44.9	21.9	25.8	1.5	4.7	1.2	47.3	42.7
Chinese Taipei	588	67.5	67.5	14.3	13.6	2.4	2.2	0.0	71.6	63.4
Colombia	684	25.4	25.4	11.8	27.5	8.2	11.4	15.6	23.4	27.2
Czech Republic	610	28.5	28.5	21.3	32.5	7.0	8.8	1.9	29.1	27.9
Denmark	509	25.6	25.6	27.3	39.1	2.1	5.0	0.9	30.3	20.9
El Salvador	599	22.8	22.8	22.2	31.6	8.7	5.8	8.9	27.2	17.8
England	593	45.1	45.1	17.5	30.2	2.3	4.6	0.3	50.3	40.5
Georgia	599	47.5	47.5	15.5	19.7	3.0	9.5	4.8	46.3	48.6
Germany	753	50.5	50.5	17.9	27.9	0.9	2.3	0.6	53.3	47.4
Hong Kong SAR	544	45.9	45.9	34.1	12.5	6.2	1.3	0.0	41.5	50.1
Hungary	580	37.7	37.7	18.1	27.9	4.3	10.1	2.0	36.6	38.7
Iran, Islamic Rep. of	554	23.4	23.4	15.7	28.9	8.1	17.5	6.4	23.2	23.6
Italy	637	38.7	38.7	21.3	27.4	4.5	6.5	1.5	39.6	37.8
Japan	646	53.1	53.1	16.3	26.0	1.7	2.5	0.3	52.4	53.8
Kazakhstan	571	66.7	66.7	9.4	20.7	2.0	1.1	0.1	67.0	66.3
Kuwait	539	16.5	16.5	28.4	25.9	12.2	12.8	4.2	19.7	13.4
Latvia	547	47.2	47.2	12.9	35.6	1.0	2.4	1.0	49.7	44.9
Lithuania	568	56.5	56.5	14.5	24.6	1.2	2.2	1.0	62.2	51.7
Morocco	539	22.5	22.5	17.0	27.7	9.1	16.7	7.0	22.9	22.1
Netherlands	485	40.8	40.8	18.3	37.3	1.4	1.5	0.7	39.2	42.3
New Zealand	702	30.1	30.1	27.6	32.6	2.7	5.0	1.9	28.6	31.7
Norway	597	23.8	23.8	30.7	31.2	3.0	8.1	3.3	20.9	26.5
Qatar	1008	21.3	21.3	26.4	26.0	13.4	9.8	3.2	21.7	20.9
Russian Federation	630	50.2	50.2	15.3	25.3	2.0	6.8	0.3	51.4	48.9
Scotland	550	37.8	37.8	26.3	29.5	1.9	2.2	2.3	41.7	33.8
Singapore	723	79.2	79.2	4.1	12.7	3.4	0.6	0.0	80.9	77.5
Slovak Republic	704	30.4	30.4	23.9	31.7	3.7	9.6	0.7	27.3	32.9
Slovenia	608	31.5	31.5	24.9	31.4	2.8	7.3	2.1	34.3	28.5
Sweden	672	22.1	22.1	27.4	42.2	1.7	4.2	2.4	21.6	22.7
Tunisia	589	18.6	18.6	13.9	26.7	9.5	24.7	6.7	18.4	18.7
Ukraine	616	50.2	50.2	14.7	26.6	3.1	4.1	1.3	45.5	54.0
United States	1112	48.2	48.2	17.1	27.3	3.5	2.9	1.0	51.5	44.4
Yemen	828	17.8	17.8	23.5	26.6	15.9	13.8	2.4	20.3	15.9
International Avg.	636	38.0	38.0	19.6	27.5	4.8	7.4	2.7	38.8	37.1
Alberta, Canada	578	34.2	34.2	26.2	30.3	1.3	6.8	1.3	32.8	35.5
British Columbia, Canada	583	38.7	38.7	25.1	25.5	1.7	7.9	1.1	41.3	36.1
Dubai, UAE	427	26.5	26.5	22.4	31.2	7.9	10.3	1.5	24.8	27.9
Massachusetts, US	239	54.6	54.6	15.0	22.6	3.8	2.5	1.5	59.4	49.1
Minnesota, US	267	57.4	57.4	17.9	19.5	1.8	3.0	0.4	59.7	55.2
Ontario, Canada	495	36.8	36.8	28.9	25.4	1.5	4.4	2.9	35.6	37.8
Quebec, Canada	541	37.6	37.6	24.7	26.4	2.5	6.2	2.6	37.7	37.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041330 - M02\_07)  
 Label: Perimeter of the rectangle  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	29.9	16.1	20.2	29.9	19.0	3.8	11.0	28.3	31.2
Armenia	564	59.4	7.1	12.2	59.4	16.4	4.1	0.8	59.1	59.7
Australia	592	63.4	7.9	18.9	63.4	7.2	2.0	0.7	62.7	64.1
Austria	698	62.1	2.2	15.1	62.1	17.5	1.4	1.7	61.1	63.0
Chinese Taipei	588	77.6	2.4	3.9	77.6	15.9	0.3	0.0	77.5	77.7
Colombia	684	14.3	28.4	27.5	14.3	8.8	3.8	17.2	16.6	12.0
Czech Republic	609	49.6	5.7	32.7	49.6	7.6	2.5	1.9	53.7	45.3
Denmark	510	60.0	2.1	18.4	60.0	15.4	2.8	1.5	56.7	63.1
El Salvador	599	12.9	44.0	22.2	12.9	7.1	4.0	9.9	11.2	14.8
England	593	62.2	3.2	15.3	62.2	15.3	3.1	0.9	62.1	62.3
Georgia	599	59.3	4.4	11.3	59.3	17.9	2.1	5.0	58.4	60.1
Germany	753	59.8	6.3	24.2	59.8	7.4	1.3	1.0	57.2	62.7
Hong Kong SAR	544	76.1	0.3	1.3	76.1	22.0	0.3	0.0	72.8	79.3
Hungary	580	55.9	6.3	24.1	55.9	9.2	1.5	2.9	58.5	53.4
Iran, Islamic Rep. of	554	43.1	13.8	18.3	43.1	11.6	5.3	7.9	40.7	45.5
Italy	638	49.1	15.7	22.9	49.1	6.2	3.4	2.7	47.0	51.1
Japan	646	33.7	2.5	8.9	33.7	53.9	0.4	0.7	36.7	30.8
Kazakhstan	571	80.3	1.2	10.8	80.3	7.6	0.0	0.1	79.8	80.7
Kuwait	539	21.7	30.0	24.7	21.7	13.2	6.3	4.2	21.5	21.9
Latvia	547	75.6	0.7	7.7	75.6	14.4	0.6	1.0	77.4	74.0
Lithuania	568	68.3	1.8	5.6	68.3	21.7	1.3	1.3	70.1	66.7
Morocco	540	18.1	28.6	19.6	18.1	17.7	6.4	9.5	20.1	16.4
Netherlands	485	55.7	2.8	25.2	55.7	14.1	1.5	0.7	54.9	56.4
New Zealand	702	30.1	19.0	35.0	30.1	8.5	4.9	2.4	32.4	27.8
Norway	597	41.7	11.7	23.6	41.7	13.5	5.8	3.8	45.1	38.7
Qatar	1008	18.5	36.1	28.5	18.5	6.9	5.8	4.3	16.7	20.4
Russian Federation	630	71.0	1.8	5.3	71.0	19.9	1.5	0.6	71.5	70.4
Scotland	550	33.1	12.0	41.0	33.1	7.4	4.0	2.6	28.3	38.2
Singapore	723	91.9	1.1	2.7	91.9	3.8	0.5	0.0	92.8	91.0
Slovak Republic	704	70.2	5.2	14.3	70.2	6.7	2.8	0.9	69.8	70.6
Slovenia	608	40.6	16.0	34.3	40.6	3.7	2.4	2.9	36.2	45.5
Sweden	673	73.5	5.6	14.2	73.5	3.3	0.8	2.5	74.4	72.6
Tunisia	589	40.5	13.8	15.8	40.5	8.8	12.9	8.3	37.1	43.1
Ukraine	616	53.6	5.9	16.1	53.6	21.2	1.1	2.0	53.6	53.6
United States	1112	67.8	2.8	14.9	67.8	11.9	1.2	1.4	66.3	69.6
Yemen	828	21.1	30.6	21.7	21.1	13.4	10.0	3.2	19.1	22.6
International Avg.	636	51.2	11.0	18.3	51.2	13.2	3.1	3.3	50.8	51.6
Alberta, Canada	578	61.0	6.8	22.1	61.0	5.2	3.6	1.3	59.8	62.1
British Columbia, Canada	583	49.2	7.0	29.9	49.2	7.6	4.5	1.8	50.5	47.9
Dubai, UAE	427	36.2	21.1	30.1	36.2	6.7	3.9	1.9	37.9	34.8
Massachusetts, US	239	73.1	0.8	9.6	73.1	14.2	0.5	1.8	71.6	74.9
Minnesota, US	267	72.8	1.0	6.0	72.8	18.7	0.5	1.0	73.8	71.9
Ontario, Canada	495	69.9	3.5	15.1	69.9	6.8	1.2	3.5	72.2	68.0
Quebec, Canada	541	63.6	5.8	16.2	63.6	8.0	2.5	3.9	60.5	66.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041300A - M02\_08A)  
 Label: Make a 4-sided figure  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	596	5.8	0.7	1.7	51.3	29.6	10.8	5.8	4.5	7.0
Armenia	571	30.3	2.1	0.4	21.5	44.9	0.8	30.3	31.2	29.5
Australia	592	63.7	7.4	3.8	14.7	9.4	1.0	63.7	68.1	59.4
Austria	698	45.8	2.6	7.2	16.1	26.6	1.7	45.8	45.2	46.3
Chinese Taipei	588	42.1	2.0	20.4	28.0	7.5	0.0	42.1	40.9	43.3
Colombia	684	14.2	2.4	8.6	24.8	31.6	18.3	14.2	10.0	18.3
Czech Republic	611	42.3	5.7	2.7	24.0	23.5	1.9	42.3	47.0	37.4
Denmark	509	62.2	1.0	2.2	19.6	13.0	2.1	62.2	67.9	56.7
El Salvador	599	6.4	2.1	9.4	36.1	36.2	9.9	6.4	5.7	7.2
England	593	58.8	5.6	3.9	20.4	10.5	0.9	58.8	63.6	54.5
Georgia	599	11.8	0.1	4.0	37.2	41.8	5.2	11.8	12.7	11.0
Germany	753	47.5	5.0	3.2	20.0	23.2	1.1	47.5	44.1	51.1
Hong Kong SAR	544	77.9	0.8	4.8	12.5	4.0	0.0	77.9	78.7	77.2
Hungary	580	45.0	6.3	7.2	24.0	14.5	3.1	45.0	43.2	46.8
Iran, Islamic Rep. of	554	11.5	0.7	8.5	40.8	29.8	8.7	11.5	12.5	10.5
Italy	640	34.4	2.0	14.4	29.6	16.5	3.2	34.4	33.2	35.5
Japan	646	64.5	7.0	9.4	13.6	4.8	0.7	64.5	67.9	61.4
Kazakhstan	572	60.1	1.2	3.0	23.3	12.4	0.1	60.1	58.6	61.5
Kuwait	539	6.9	0.4	0.5	63.2	24.0	5.0	6.9	5.2	8.6
Latvia	547	59.3	2.1	4.1	20.2	13.3	1.0	59.3	59.4	59.2
Lithuania	568	45.6	1.6	5.1	22.0	24.1	1.6	45.6	48.0	43.5
Morocco	561	7.4	1.0	1.8	37.2	42.9	9.7	7.4	7.8	7.1
Netherlands	485	52.1	8.9	3.9	24.5	9.8	0.7	52.1	51.9	52.3
New Zealand	702	46.6	9.2	4.6	24.3	12.7	2.7	46.6	47.4	45.7
Norway	597	48.8	3.9	3.5	24.0	14.7	5.1	48.8	52.2	45.9
Qatar	1008	3.9	1.1	5.7	57.3	27.7	4.4	3.9	4.7	3.0
Russian Federation	630	63.0	2.3	5.4	17.2	11.4	0.7	63.0	69.1	56.5
Scotland	550	51.2	10.7	2.7	22.1	10.0	3.3	51.2	50.1	52.4
Singapore	723	68.6	4.2	3.4	18.8	4.9	0.1	68.6	72.7	64.7
Slovak Republic	704	48.5	2.6	1.2	23.6	23.0	1.1	48.5	48.4	48.7
Slovenia	608	49.1	2.4	2.0	31.9	11.4	3.2	49.1	50.6	47.4
Sweden	673	59.6	6.4	3.9	14.0	13.7	2.6	59.6	56.5	62.7
Tunisia	589	8.5	0.0	0.7	58.6	23.5	8.7	8.5	7.1	9.6
Ukraine	616	29.9	2.7	2.5	40.0	22.9	2.0	29.9	28.6	31.0
United States	1112	51.3	4.4	3.6	29.4	10.0	1.4	51.3	53.2	49.0
Yemen	831	4.1	1.3	0.2	69.5	21.7	3.2	4.1	3.2	4.8
International Avg.	638	39.7	3.3	4.7	29.3	19.5	3.5	39.7	40.3	39.1
Alberta, Canada	578	56.0	6.2	5.3	18.6	12.0	1.9	56.0	52.8	59.0
British Columbia, Canada	583	60.7	6.3	2.9	17.4	10.8	1.8	60.7	62.0	59.4
Dubai, UAE	427	23.5	5.0	3.6	43.3	22.6	1.9	23.5	22.5	24.4
Massachusetts, US	239	69.8	3.1	1.7	13.2	10.4	1.8	69.8	75.0	63.6
Minnesota, US	267	57.6	4.5	6.9	21.9	8.1	1.0	57.6	67.2	48.2
Ontario, Canada	495	53.5	5.1	4.2	16.6	17.1	3.6	53.5	57.1	50.8
Quebec, Canada	541	60.3	3.7	4.3	16.9	10.1	4.7	60.3	63.9	56.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041300B - M02\_08B)  
 Label: Make a 6-sided figure  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	594	4.8	47.1	31.2	17.0	4.8	4.6	4.9
Armenia	571	19.6	28.3	45.3	6.8	19.6	21.7	17.7
Australia	592	61.4	26.6	9.0	2.9	61.4	59.5	63.2
Austria	698	57.3	18.0	21.0	3.7	57.3	59.8	55.0
Chinese Taipei	588	40.5	52.5	6.8	0.3	40.5	38.4	42.7
Colombia	684	12.1	28.9	35.8	23.1	12.1	10.0	14.0
Czech Republic	611	45.8	22.7	24.9	6.6	45.8	50.2	41.1
Denmark	510	66.1	17.3	12.9	3.7	66.1	68.2	64.2
El Salvador	599	7.0	38.8	37.5	16.7	7.0	6.1	8.0
England	593	64.2	21.5	12.7	1.7	64.2	67.5	61.3
Georgia	599	11.9	29.8	48.5	9.8	11.9	11.8	12.0
Germany	753	61.3	19.7	14.2	4.7	61.3	65.0	57.4
Hong Kong SAR	544	85.5	10.9	3.2	0.3	85.5	88.2	82.9
Hungary	580	46.5	32.0	16.4	5.1	46.5	52.2	40.9
Iran, Islamic Rep. of	553	15.0	33.0	35.7	16.4	15.0	15.6	14.4
Italy	640	48.3	26.3	20.0	5.4	48.3	44.0	52.7
Japan	646	67.1	26.5	4.1	2.3	67.1	71.9	62.5
Kazakhstan	572	66.9	17.1	15.1	0.9	66.9	67.3	66.4
Kuwait	539	2.9	53.3	34.7	9.2	2.9	2.8	2.9
Latvia	547	64.4	20.1	13.1	2.4	64.4	62.0	66.5
Lithuania	568	42.2	27.9	25.2	4.7	42.2	44.8	39.9
Morocco	561	7.6	28.5	46.9	17.0	7.6	8.5	6.4
Netherlands	485	45.8	40.1	11.9	2.2	45.8	46.1	45.5
New Zealand	702	44.2	35.3	14.9	5.6	44.2	44.4	44.1
Norway	597	48.8	23.9	17.5	9.8	48.8	52.7	45.4
Qatar	1008	3.9	58.1	30.1	8.0	3.9	3.9	3.8
Russian Federation	630	64.7	20.4	11.0	3.9	64.7	66.8	62.5
Scotland	550	52.4	30.3	11.5	5.7	52.4	52.2	52.7
Singapore	723	64.0	30.5	5.0	0.5	64.0	66.3	61.7
Slovak Republic	704	44.2	28.1	22.5	5.3	44.2	43.6	44.6
Slovenia	608	57.5	22.8	12.3	7.4	57.5	63.1	51.4
Sweden	673	59.3	20.6	14.1	6.1	59.3	58.3	60.2
Tunisia	589	5.0	54.4	24.1	16.5	5.0	3.4	6.4
Ukraine	616	33.0	33.0	29.5	4.5	33.0	34.2	32.0
United States	1112	54.0	33.6	9.8	2.6	54.0	55.4	52.3
Yemen	823	2.3	66.2	24.0	7.5	2.3	2.4	2.3
International Avg.	638	41.0	31.2	20.9	6.8	41.0	42.0	40.1
Alberta, Canada	578	54.0	29.7	11.8	4.5	54.0	52.0	55.8
British Columbia, Canada	583	62.2	23.4	11.3	3.2	62.2	60.7	63.7
Dubai, UAE	427	24.7	41.8	28.7	4.9	24.7	24.9	24.5
Massachusetts, US	239	67.6	21.1	6.6	4.7	67.6	69.3	65.6
Minnesota, US	267	66.7	24.1	6.2	3.0	66.7	70.0	63.4
Ontario, Canada	495	60.0	19.0	12.2	8.8	60.0	64.8	56.2
Quebec, Canada	541	61.8	19.1	11.3	7.7	61.8	66.2	57.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041300C - M02\_08C)  
 Label: Another 6-sided figure  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	595	1.9	0.8	44.3	34.0	19.0	1.9	2.9	1.1
Armenia	571	17.1	2.3	27.7	45.8	7.1	17.1	19.9	14.6
Australia	592	51.5	5.7	26.9	12.4	3.5	51.5	47.2	55.6
Austria	698	31.1	11.0	26.4	27.2	4.3	31.1	30.2	31.8
Chinese Taipei	588	27.8	10.9	48.4	12.6	0.3	27.8	25.9	29.8
Colombia	684	8.9	2.2	27.9	36.0	25.0	8.9	6.7	11.0
Czech Republic	611	23.2	14.1	23.7	30.9	8.0	23.2	21.0	25.6
Denmark	510	57.3	2.1	20.3	15.3	5.1	57.3	60.8	53.8
El Salvador	599	6.2	1.5	35.9	38.4	18.0	6.2	5.6	6.9
England	593	53.4	4.6	24.6	14.8	2.6	53.4	53.0	53.7
Georgia	599	5.8	3.4	27.5	51.8	11.5	5.8	6.3	5.4
Germany	753	49.1	6.2	19.9	19.0	5.8	49.1	51.8	46.1
Hong Kong SAR	544	59.4	12.3	20.8	7.3	0.3	59.4	63.1	55.9
Hungary	580	36.9	8.1	29.7	19.4	5.9	36.9	36.3	37.6
Iran, Islamic Rep. of	553	6.3	5.1	29.9	40.9	17.8	6.3	6.8	5.7
Italy	640	35.9	4.3	28.8	23.7	7.3	35.9	32.0	39.8
Japan	646	58.7	4.6	27.8	5.9	3.1	58.7	60.2	57.3
Kazakhstan	572	44.2	12.7	24.2	18.0	0.9	44.2	42.5	45.9
Kuwait	539	0.6	1.2	52.0	34.1	12.2	0.6	0.9	0.2
Latvia	547	47.1	8.5	23.1	18.8	2.5	47.1	47.3	47.0
Lithuania	568	21.4	13.8	31.6	28.2	5.0	21.4	22.6	20.3
Morocco	561	2.9	1.7	26.0	49.4	20.0	2.9	2.6	3.2
Netherlands	485	41.4	6.4	36.8	12.9	2.5	41.4	44.3	38.7
New Zealand	702	38.5	3.5	34.8	16.5	6.7	38.5	40.8	36.1
Norway	597	37.8	4.1	27.4	17.8	12.9	37.8	42.0	34.1
Qatar	1008	3.5	0.8	56.7	29.3	9.7	3.5	4.4	2.4
Russian Federation	630	44.4	10.6	25.1	15.1	4.8	44.4	44.9	43.8
Scotland	550	40.3	5.0	31.0	17.4	6.3	40.3	39.3	41.3
Singapore	723	55.4	7.4	31.0	5.7	0.6	55.4	58.6	52.1
Slovak Republic	704	34.9	7.6	27.1	24.2	6.2	34.9	33.1	36.4
Slovenia	608	42.8	10.6	23.0	14.3	9.2	42.8	44.2	41.3
Sweden	673	43.9	5.5	26.4	17.4	6.8	43.9	42.0	45.9
Tunisia	589	3.0	0.8	53.3	23.7	19.2	3.0	0.7	4.8
Ukraine	616	24.1	5.2	32.4	32.5	5.8	24.1	23.2	24.9
United States	1112	44.9	5.3	34.2	11.8	3.8	44.9	43.7	46.3
Yemen	823	1.0	0.1	64.4	26.2	8.3	1.0	0.5	1.4
International Avg.	638	30.6	5.8	32.0	23.6	8.0	30.6	30.8	30.5
Alberta, Canada	578	45.3	4.8	29.9	13.9	6.0	45.3	43.0	47.4
British Columbia, Canada	583	52.1	3.8	26.4	13.9	3.8	52.1	53.4	50.8
Dubai, UAE	427	18.3	3.1	43.0	29.9	5.8	18.3	17.8	18.6
Massachusetts, US	239	59.5	1.3	24.6	9.0	5.5	59.5	60.4	58.4
Minnesota, US	267	52.2	4.1	32.3	6.7	4.6	52.2	51.8	52.7
Ontario, Canada	495	52.6	3.0	20.8	14.7	8.9	52.6	60.1	46.7
Quebec, Canada	541	52.8	1.9	22.3	14.0	8.9	52.8	56.9	48.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041300D - M02\_08D)  
 Label: Make a 7-sided figure  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	595	1.6	46.9	32.0	19.6	1.6	1.6	1.5
Armenia	571	13.2	29.9	49.4	7.4	13.2	14.3	12.2
Australia	592	36.4	43.4	15.6	4.5	36.4	39.8	33.1
Austria	698	23.7	32.3	38.6	5.4	23.7	24.9	22.6
Chinese Taipei	588	29.1	54.4	15.3	1.2	29.1	27.9	30.3
Colombia	684	6.8	32.7	34.9	25.6	6.8	6.2	7.3
Czech Republic	611	26.1	29.9	35.2	8.8	26.1	26.6	25.7
Denmark	510	41.6	34.1	18.2	6.0	41.6	51.0	32.5
El Salvador	599	3.1	42.0	36.0	18.9	3.1	2.6	3.7
England	593	43.7	37.0	16.1	3.2	43.7	44.7	42.7
Georgia	599	7.3	30.4	50.4	11.9	7.3	8.5	6.2
Germany	753	35.0	32.2	25.4	7.4	35.0	38.9	30.8
Hong Kong SAR	544	59.6	32.3	7.8	0.3	59.6	60.1	59.1
Hungary	580	27.6	43.6	22.4	6.3	27.6	28.1	27.1
Iran, Islamic Rep. of	553	6.2	34.7	40.1	19.0	6.2	8.7	3.7
Italy	640	32.2	29.8	30.5	7.6	32.2	30.9	33.4
Japan	646	51.6	34.8	9.8	3.8	51.6	55.8	47.7
Kazakhstan	572	50.5	29.9	18.2	1.3	50.5	51.1	50.0
Kuwait	539	0.3	54.4	32.9	12.4	0.3	0.2	0.4
Latvia	547	41.6	32.6	23.0	2.9	41.6	37.4	45.3
Lithuania	568	19.3	41.1	34.5	5.1	19.3	21.9	17.1
Morocco	561	2.2	29.7	46.2	21.9	2.2	1.5	3.0
Netherlands	485	33.4	51.0	12.7	2.9	33.4	34.2	32.6
New Zealand	702	26.0	48.7	18.2	7.1	26.0	25.9	26.2
Norway	597	29.5	33.2	22.9	14.4	29.5	31.3	27.9
Qatar	1008	1.4	58.2	30.1	10.3	1.4	1.6	1.2
Russian Federation	630	49.9	27.5	17.4	5.3	49.9	53.5	45.9
Scotland	550	26.9	44.5	19.1	9.5	26.9	29.0	24.6
Singapore	723	44.4	48.3	6.6	0.7	44.4	46.6	42.3
Slovak Republic	704	28.8	37.3	27.3	6.6	28.8	30.4	27.4
Slovenia	608	40.8	34.3	15.6	9.2	40.8	46.2	35.1
Sweden	673	31.7	35.5	24.4	8.4	31.7	32.3	31.1
Tunisia	589	2.2	54.5	23.2	20.1	2.2	2.1	2.3
Ukraine	616	21.6	37.1	35.5	5.8	21.6	23.1	20.3
United States	1112	31.2	51.4	12.2	5.2	31.2	31.7	30.7
Yemen	823	1.0	65.6	25.0	8.4	1.0	0.5	1.3
International Avg.	638	25.8	39.9	25.6	8.7	25.8	27.0	24.6
Alberta, Canada	578	32.2	45.6	15.1	7.1	32.2	30.5	33.7
British Columbia, Canada	583	35.1	42.9	17.3	4.7	35.1	33.0	37.4
Dubai, UAE	427	12.5	51.3	29.8	6.3	12.5	14.3	11.1
Massachusetts, US	239	43.5	41.0	9.3	6.2	43.5	44.3	42.5
Minnesota, US	267	39.0	48.5	6.9	5.5	39.0	42.9	35.3
Ontario, Canada	495	37.1	36.2	17.1	9.6	37.1	40.9	34.1
Quebec, Canada	541	37.2	35.4	16.5	10.9	37.2	39.9	34.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041173 - M02\_09)  
 Label: Shape after 90 degree rotation  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	17.6	15.0	18.3	17.6	12.4	16.1	20.6	16.4	18.7
Armenia	561	42.8	13.8	12.7	42.8	14.9	8.0	7.8	45.0	40.8
Australia	592	36.5	10.5	18.1	36.5	22.4	6.0	6.4	32.7	40.3
Austria	698	37.7	6.7	12.3	37.7	25.9	10.3	7.1	34.3	40.7
Chinese Taipei	588	36.0	13.2	5.5	36.0	41.0	2.9	1.5	33.3	38.7
Colombia	684	13.1	16.3	24.6	13.1	9.7	10.2	26.0	14.6	11.7
Czech Republic	611	27.1	7.0	12.2	27.1	29.5	14.5	9.6	25.7	28.6
Denmark	509	37.9	6.7	11.8	37.9	26.1	11.0	6.5	35.2	40.4
El Salvador	599	14.7	17.1	24.5	14.7	14.5	10.1	18.9	14.5	14.9
England	593	48.8	8.9	10.7	48.8	21.6	5.4	4.6	44.4	52.7
Georgia	599	19.6	9.2	27.1	19.6	21.6	10.3	12.2	14.4	24.4
Germany	753	29.3	5.8	13.1	29.3	28.0	13.7	10.1	25.7	33.3
Hong Kong SAR	544	40.5	8.8	12.6	40.5	35.8	2.0	0.3	34.3	46.4
Hungary	580	42.3	6.5	14.4	42.3	20.5	8.7	7.7	38.3	46.3
Iran, Islamic Rep. of	553	15.6	16.9	17.3	15.6	17.8	12.0	20.3	12.5	18.7
Italy	639	29.2	13.2	14.6	29.2	23.7	10.1	9.1	26.9	31.6
Japan	646	48.8	8.7	4.7	48.8	28.4	3.7	5.6	48.1	49.4
Kazakhstan	572	50.6	9.6	11.5	50.6	26.7	0.3	1.3	45.5	55.6
Kuwait	539	14.5	19.7	24.2	14.5	14.4	14.8	12.4	15.5	13.5
Latvia	547	38.9	7.4	17.8	38.9	25.4	6.4	4.1	31.8	45.3
Lithuania	568	30.4	7.6	14.1	30.4	25.9	16.2	5.8	30.1	30.7
Morocco	534	18.3	13.1	16.6	18.3	10.6	18.7	22.8	22.2	14.5
Netherlands	485	35.8	8.7	13.2	35.8	32.3	6.3	3.6	32.1	39.1
New Zealand	702	30.2	9.6	22.3	30.2	23.6	5.3	8.9	26.2	34.3
Norway	597	25.5	7.8	14.7	25.5	14.1	20.0	18.0	22.5	28.1
Qatar	1008	9.8	17.3	28.1	9.8	11.7	22.1	10.9	10.6	9.0
Russian Federation	630	38.8	8.4	12.2	38.8	29.7	4.3	6.6	40.0	37.5
Scotland	550	28.0	13.1	24.3	28.0	14.7	8.2	11.7	26.5	29.6
Singapore	723	46.0	10.9	13.1	46.0	27.5	1.3	1.1	44.9	47.2
Slovak Republic	704	36.7	6.8	10.0	36.7	28.3	10.9	7.4	32.1	40.5
Slovenia	608	23.2	12.0	15.2	23.2	24.1	15.0	10.4	20.3	26.3
Sweden	673	27.4	5.8	20.1	27.4	21.9	13.3	11.5	27.4	27.4
Tunisia	589	12.8	7.6	9.4	12.8	9.2	40.7	20.3	15.6	10.5
Ukraine	616	29.0	12.0	19.0	29.0	29.0	5.3	5.8	24.6	32.6
United States	1112	29.2	13.6	24.9	29.2	22.2	3.6	6.6	27.2	31.4
Yemen	831	17.4	15.0	19.6	17.4	13.0	26.3	8.7	12.1	21.6
International Avg.	636	30.0	10.9	16.2	30.0	22.2	10.9	9.8	27.9	32.0
Alberta, Canada	578	22.1	13.6	25.7	22.1	26.3	3.7	8.5	20.7	23.4
British Columbia, Canada	583	20.7	13.5	24.9	20.7	24.9	9.4	6.6	19.0	22.4
Dubai, UAE	427	20.4	13.9	28.3	20.4	14.2	16.2	7.0	18.9	21.7
Massachusetts, US	239	33.2	14.5	17.3	33.2	23.9	2.8	8.3	28.6	38.6
Minnesota, US	267	33.4	18.0	19.8	33.4	18.8	3.4	6.7	27.7	39.0
Ontario, Canada	495	27.4	9.7	25.5	27.4	21.6	4.7	11.1	25.5	28.8
Quebec, Canada	541	31.2	5.6	12.9	31.2	23.9	13.7	12.8	30.3	32.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041274 - M02\_10)

Label: Put the correct number on the scale

Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT	V1	1.GIRL %Right	2.BOY %Right
						REACH ED			
Algeria	595	17.4	7.5	35.2	18.2	21.7	17.4	17.4	17.4
Armenia	570	50.4	8.5	14.0	19.4	7.8	50.4	48.7	52.0
Australia	592	66.0	4.8	15.4	7.2	6.6	66.0	66.6	65.4
Austria	698	32.9	8.9	25.5	24.8	8.0	32.9	31.6	34.0
Chinese Taipei	588	69.9	2.7	22.1	3.5	1.8	69.9	71.1	68.8
Colombia	684	17.8	8.7	35.7	10.0	27.8	17.8	15.5	19.9
Czech Republic	611	33.4	6.6	32.0	17.4	10.6	33.4	34.3	32.5
Denmark	510	60.5	8.4	14.1	9.5	7.5	60.5	55.5	65.4
El Salvador	599	14.6	7.3	43.4	14.1	20.6	14.6	12.3	17.2
England	593	78.3	1.9	10.4	3.0	6.3	78.3	81.1	76.0
Georgia	599	18.6	15.8	28.6	24.3	12.6	18.6	17.4	19.8
Germany	753	43.8	5.5	19.9	19.0	11.8	43.8	42.5	45.2
Hong Kong SAR	544	95.8	0.5	2.8	0.1	0.7	95.8	95.9	95.8
Hungary	580	41.7	10.1	23.1	14.7	10.4	41.7	40.5	42.9
Iran, Islamic Rep. of	553	23.5	4.5	27.8	22.0	22.3	23.5	23.5	23.4
Italy	640	45.2	3.2	24.7	16.5	10.5	45.2	41.1	49.3
Japan	646	86.5	0.0	4.7	1.5	7.4	86.5	89.1	84.1
Kazakhstan	573	42.9	30.7	18.4	6.5	1.6	42.9	41.5	44.3
Kuwait	539	9.7	0.2	57.1	18.0	14.9	9.7	10.3	9.1
Latvia	547	68.8	4.3	14.2	7.5	5.3	68.8	72.1	65.7
Lithuania	568	63.4	8.7	15.3	5.9	6.7	63.4	69.8	58.0
Morocco	560	14.9	4.0	40.0	17.4	23.7	14.9	13.9	15.7
Netherlands	485	62.3	6.1	21.7	5.3	4.6	62.3	60.2	64.2
New Zealand	702	58.6	4.5	24.1	3.6	9.2	58.6	60.1	57.0
Norway	597	35.2	8.9	25.5	10.0	20.3	35.2	36.8	33.8
Qatar	1008	11.4	3.5	59.6	12.0	13.4	11.4	12.0	10.8
Russian Federation	630	45.1	13.9	19.9	12.8	8.2	45.1	43.8	46.5
Scotland	550	64.6	2.9	16.2	3.3	12.9	64.6	63.7	65.6
Singapore	723	83.8	3.5	9.9	1.4	1.5	83.8	83.4	84.2
Slovak Republic	704	43.4	4.8	25.8	16.7	9.3	43.4	40.5	45.8
Slovenia	608	55.2	4.9	20.6	7.2	12.2	55.2	56.4	53.9
Sweden	673	58.0	5.6	16.2	7.2	13.0	58.0	56.7	59.4
Tunisia	589	13.0	5.9	42.8	13.0	25.3	13.0	11.9	13.9
Ukraine	616	33.4	16.6	29.6	13.5	6.9	33.4	31.8	34.8
United States	1112	71.8	2.4	14.5	3.3	8.0	71.8	72.1	71.4
Yemen	830	3.5	2.2	64.9	16.2	13.2	3.5	4.8	2.4
International Avg.	638	45.4	6.6	25.4	11.3	11.2	45.4	45.2	45.7
Alberta, Canada	578	71.4	1.9	13.8	3.5	9.4	71.4	69.1	73.5
British Columbia, Canada	583	69.1	2.8	13.4	6.3	8.5	69.1	67.4	70.8
Dubai, UAE	427	51.6	5.8	26.8	7.2	8.6	51.6	51.9	51.3
Massachusetts, US	239	78.4	0.3	7.4	4.6	9.4	78.4	78.6	78.2
Minnesota, US	267	73.6	0.8	12.9	4.2	8.6	73.6	77.5	69.7
Ontario, Canada	495	75.8	1.6	7.4	2.1	13.2	75.8	76.7	75.0
Quebec, Canada	541	66.6	2.8	12.2	3.5	15.0	66.6	69.0	64.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041203 - M02\_11)  
 Label: Draw a bar to show Alonso's point  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	589	11.6	0.8	30.4	29.4	27.8	11.6	11.1	12.0
Armenia	568	34.7	7.7	28.3	15.4	13.9	34.7	37.6	32.1
Australia	592	51.7	0.9	28.6	10.9	7.9	51.7	47.4	55.9
Austria	698	46.4	2.4	28.7	9.8	12.6	46.4	43.6	48.9
Chinese Taipei	588	71.7	0.4	20.5	5.1	2.4	71.7	71.1	72.3
Colombia	684	8.4	0.5	30.6	28.6	31.9	8.4	5.8	10.8
Czech Republic	611	29.9	0.9	35.4	18.5	15.3	29.9	30.9	28.8
Denmark	510	47.9	2.2	26.1	12.7	11.1	47.9	45.2	50.5
El Salvador	599	5.7	0.9	42.0	23.2	28.1	5.7	4.3	7.3
England	593	51.7	4.3	27.6	9.4	7.1	51.7	48.7	54.3
Georgia	599	23.3	2.9	34.0	20.9	18.9	23.3	20.9	25.5
Germany	753	39.8	1.9	27.4	12.8	18.0	39.8	36.1	43.8
Hong Kong SAR	544	77.3	2.2	16.0	3.9	0.7	77.3	77.7	76.9
Hungary	580	45.1	5.8	27.1	6.4	15.5	45.1	41.9	48.4
Iran, Islamic Rep. of	553	9.8	0.5	35.2	23.4	31.1	9.8	8.9	10.7
Italy	640	36.1	5.5	30.6	11.7	16.1	36.1	35.1	37.1
Japan	645	70.7	4.0	14.9	2.3	8.1	70.7	68.3	73.0
Kazakhstan	573	63.1	1.1	27.1	5.2	3.4	63.1	61.7	64.6
Kuwait	539	8.9	4.0	33.6	31.6	21.9	8.9	10.2	7.7
Latvia	547	53.9	2.0	29.3	6.8	8.0	53.9	53.3	54.3
Lithuania	568	47.0	0.8	30.9	11.5	9.8	47.0	44.4	49.2
Morocco	561	10.4	0.2	22.8	37.7	28.9	10.4	9.3	11.4
Netherlands	485	54.8	5.9	30.8	3.6	4.9	54.8	46.1	62.8
New Zealand	702	41.8	3.3	34.6	9.9	10.4	41.8	37.9	45.7
Norway	597	29.8	2.0	30.9	14.3	23.0	29.8	27.3	32.0
Qatar	1008	4.1	1.8	33.7	43.3	17.2	4.1	4.3	3.8
Russian Federation	630	49.9	1.9	24.5	11.1	12.6	49.9	50.3	49.4
Scotland	550	44.2	5.2	27.6	8.9	14.1	44.2	38.4	50.3
Singapore	723	69.8	3.0	23.9	1.5	1.9	69.8	70.5	69.0
Slovak Republic	704	37.9	3.8	29.3	14.0	15.0	37.9	36.7	38.8
Slovenia	608	40.7	1.9	28.9	13.2	15.4	40.7	40.2	41.2
Sweden	673	54.2	2.0	19.2	9.5	15.0	54.2	52.3	56.2
Tunisia	589	4.2	2.7	33.5	32.0	27.6	4.2	3.7	4.7
Ukraine	616	31.5	2.7	43.7	11.6	10.5	31.5	31.5	31.5
United States	1112	50.5	5.1	29.3	6.0	9.0	50.5	48.5	52.9
Yemen	831	1.1	0.1	46.3	32.7	19.7	1.1	1.3	1.0
International Avg.	638	37.8	2.6	29.5	15.2	14.9	37.8	36.2	39.3
Alberta, Canada	578	44.6	2.3	30.2	11.8	11.1	44.6	44.1	45.0
British Columbia, Canada	583	43.8	3.0	32.7	9.1	11.3	43.8	42.5	45.2
Dubai, UAE	427	30.8	4.1	33.2	21.4	10.5	30.8	25.3	35.3
Massachusetts, US	239	54.5	2.7	25.9	5.1	11.8	54.5	50.2	59.5
Minnesota, US	267	52.5	4.6	25.9	5.6	11.3	52.5	55.6	49.5
Ontario, Canada	495	47.0	0.9	31.6	6.5	14.1	47.0	42.4	50.6
Quebec, Canada	541	42.0	1.3	31.3	9.6	15.9	42.0	44.7	39.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031235 - M03\_01)  
 Label: Children share sweets equally  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	593	11.5	2.4	5.8	60.9	17.3	2.0	11.5	14.8	8.8
Armenia	588	57.1	4.2	1.2	24.5	11.6	1.4	57.1	54.0	60.2
Australia	596	29.7	6.0	11.4	41.5	11.2	0.2	29.7	26.7	32.9
Austria	704	35.2	5.6	24.4	24.1	10.5	0.1	35.2	29.3	40.5
Chinese Taipei	589	39.2	1.7	31.5	24.6	2.9	0.0	39.2	40.3	38.1
Colombia	685	14.6	1.6	6.8	56.2	13.5	7.2	14.6	12.5	16.5
Czech Republic	612	41.6	6.8	8.4	28.4	14.5	0.3	41.6	42.3	40.9
Denmark	509	29.7	5.4	12.2	38.9	12.6	1.3	29.7	27.2	31.9
El Salvador	599	8.5	2.5	9.6	57.1	18.4	3.9	8.5	4.9	11.7
England	614	46.1	5.0	9.2	30.9	7.7	1.1	46.1	41.0	51.4
Georgia	596	41.4	1.1	3.6	36.8	15.7	1.4	41.4	45.3	37.7
Germany	745	59.7	4.8	5.1	19.7	10.0	0.6	59.7	58.2	61.2
Hong Kong SAR	550	56.9	5.7	19.6	16.9	0.8	0.2	56.9	53.9	59.7
Hungary	576	42.5	4.7	13.0	30.2	9.1	0.6	42.5	38.6	46.7
Iran, Islamic Rep. of	549	10.2	9.5	25.3	35.7	16.5	2.8	10.2	8.8	11.5
Italy	637	29.1	6.8	11.2	38.4	13.9	0.8	29.1	25.4	32.5
Japan	640	35.8	6.2	35.0	20.9	1.1	1.0	35.8	37.4	34.2
Kazakhstan	572	64.8	0.9	2.4	31.3	0.6	0.0	64.8	64.1	65.5
Kuwait	532	3.6	2.1	2.9	63.7	22.5	5.3	3.6	2.6	4.5
Latvia	556	59.4	1.7	1.8	28.8	8.2	0.2	59.4	63.7	55.5
Lithuania	570	42.6	5.5	15.0	29.4	6.7	0.7	42.6	41.5	43.8
Morocco	551	10.9	2.2	4.6	48.7	28.1	5.6	10.9	11.7	9.9
Netherlands	483	61.2	3.3	8.7	24.0	2.8	0.0	61.2	55.1	67.2
New Zealand	704	41.2	1.9	10.4	39.0	7.1	0.4	41.2	39.6	42.9
Norway	589	39.8	0.0	4.7	36.0	17.6	1.9	39.8	30.7	48.0
Qatar	1012	3.7	1.9	4.0	66.7	20.2	3.5	3.7	2.8	4.7
Russian Federation	632	64.8	0.8	6.9	20.6	4.2	2.8	64.8	68.3	61.5
Scotland	551	36.9	8.3	8.5	30.9	14.1	1.4	36.9	36.4	37.3
Singapore	724	42.9	3.2	27.3	26.0	0.5	0.1	42.9	42.1	43.7
Slovak Republic	708	40.9	12.5	7.8	29.2	9.0	0.6	40.9	38.9	42.5
Slovenia	620	35.6	9.9	15.9	30.6	7.6	0.5	35.6	29.7	41.6
Sweden	680	38.8	0.9	3.5	37.6	17.3	1.8	38.8	33.0	44.2
Tunisia	589	3.9	10.0	10.7	63.2	8.1	4.3	3.9	2.3	5.1
Ukraine	615	31.2	4.6	10.9	43.6	9.4	0.4	31.2	30.8	31.6
United States	1113	28.5	8.3	19.4	41.8	1.7	0.2	28.5	28.4	28.7
Yemen	833	3.4	0.1	0.9	71.4	20.7	3.4	3.4	3.5	3.4
International Avg.	639	34.5	4.4	11.1	37.4	10.9	1.6	34.5	32.9	36.1
Alberta, Canada	583	24.4	7.7	13.1	47.7	6.3	0.8	24.4	23.9	25.0
British Columbia, Canada	583	29.6	5.4	9.9	46.5	8.3	0.4	29.6	31.6	27.8
Dubai, UAE	434	20.4	1.7	6.2	55.8	12.5	3.5	20.4	20.3	20.4
Massachusetts, US	246	41.2	7.9	15.9	31.2	2.7	1.1	41.2	43.0	39.2
Minnesota, US	266	33.8	8.9	15.2	38.3	2.5	1.2	33.8	32.4	35.5
Ontario, Canada	490	33.0	3.9	7.9	47.1	6.4	1.8	33.0	35.3	31.3
Quebec, Canada	543	22.9	5.3	9.3	53.9	8.1	0.5	22.9	21.7	24.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031285 - M03\_02)  
 Label: Alan and Fred went running  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
							V1	%Right	V1	%Right
Algeria	595	15.4	8.9	56.7	16.2	2.8	15.4	14.3	16.3	
Armenia	588	39.4	12.4	33.4	13.5	1.4	39.4	40.8	37.9	
Australia	596	40.2	14.4	40.7	3.8	0.9	40.2	37.5	43.2	
Austria	704	18.8	47.1	25.8	8.0	0.2	18.8	15.1	22.1	
Chinese Taipei	589	33.1	37.4	25.4	4.0	0.0	33.1	29.5	36.9	
Colombia	685	10.2	3.5	66.2	11.1	8.9	10.2	8.7	11.7	
Czech Republic	612	24.0	8.8	52.7	13.8	0.7	24.0	20.6	27.4	
Denmark	509	41.0	7.4	43.9	6.2	1.4	41.0	40.4	41.6	
El Salvador	599	4.7	1.4	78.6	10.4	4.9	4.7	2.6	6.5	
England	614	41.4	13.4	39.0	5.1	1.1	41.4	36.2	46.9	
Georgia	596	25.3	5.1	50.7	17.5	1.4	25.3	22.5	28.0	
Germany	745	29.4	47.4	16.1	6.1	1.0	29.4	27.5	31.2	
Hong Kong SAR	550	52.7	13.9	31.9	1.3	0.2	52.7	48.7	56.5	
Hungary	576	31.3	26.8	34.7	6.5	0.6	31.3	25.3	37.8	
Iran, Islamic Rep. of	549	11.9	10.3	53.6	20.9	3.2	11.9	10.9	12.9	
Italy	637	33.5	12.9	37.3	14.9	1.4	33.5	31.4	35.4	
Japan	640	39.8	27.0	29.2	2.5	1.5	39.8	40.6	39.0	
Kazakhstan	572	38.8	22.7	36.3	2.2	0.0	38.8	42.6	34.8	
Kuwait	532	2.7	3.4	54.5	33.8	5.7	2.7	4.5	0.9	
Latvia	556	28.5	8.0	50.7	12.7	0.2	28.5	26.5	30.4	
Lithuania	570	31.8	28.5	31.4	7.4	0.9	31.8	25.0	38.8	
Morocco	552	7.9	13.5	44.8	27.7	6.1	7.9	8.5	7.2	
Netherlands	483	42.2	19.2	36.1	1.2	1.3	42.2	42.5	41.9	
New Zealand	704	32.9	13.7	49.8	3.2	0.4	32.9	30.6	35.4	
Norway	589	33.9	10.6	44.8	8.1	2.6	33.9	33.1	34.6	
Qatar	1012	4.1	4.6	68.0	19.6	3.7	4.1	4.4	3.8	
Russian Federation	632	28.7	31.5	31.8	5.3	2.8	28.7	30.1	27.3	
Scotland	551	27.8	11.8	47.8	10.3	2.3	27.8	28.8	26.7	
Singapore	724	53.7	14.4	31.3	0.5	0.1	53.7	51.3	56.0	
Slovak Republic	708	26.3	25.5	36.4	10.9	0.9	26.3	19.8	31.7	
Slovenia	620	29.1	7.8	52.6	7.5	3.0	29.1	26.1	32.1	
Sweden	680	42.2	14.5	29.8	10.9	2.6	42.2	36.4	47.5	
Tunisia	589	9.4	7.7	61.1	17.1	4.6	9.4	9.4	9.4	
Ukraine	615	14.2	24.9	49.4	11.2	0.4	14.2	12.7	15.5	
United States	1113	32.8	12.8	52.2	1.6	0.6	32.8	30.3	35.7	
Yemen	833	1.9	1.3	69.5	23.2	4.1	1.9	1.3	2.4	
International Avg.	639	27.3	16.0	44.3	10.5	2.0	27.3	25.5	29.0	
Alberta, Canada	583	32.4	17.2	46.5	2.5	1.5	32.4	33.9	30.9	
British Columbia, Canada	583	35.6	12.7	45.1	5.9	0.7	35.6	36.6	34.7	
Dubai, UAE	434	19.1	7.4	60.1	9.0	4.3	19.1	19.8	18.6	
Massachusetts, US	246	46.3	14.5	35.8	2.3	1.1	46.3	45.8	46.9	
Minnesota, US	266	32.5	15.5	48.0	2.8	1.2	32.5	35.5	28.6	
Ontario, Canada	490	37.8	16.1	39.4	3.7	3.1	37.8	39.5	36.6	
Quebec, Canada	543	26.7	23.0	39.4	10.2	0.7	26.7	23.3	30.1	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031050 - M03\_03)  
 Label: Ken measured length of a blackboard  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	571	25.2	25.2	28.3	21.6	12.0	9.5	3.4	27.5	23.3
Armenia	588	54.9	54.9	14.2	9.3	3.9	16.3	1.3	52.3	57.4
Australia	596	46.9	46.9	25.5	12.7	9.5	3.5	1.9	44.9	49.0
Austria	704	54.6	54.6	22.8	9.4	3.4	9.4	0.4	52.9	56.1
Chinese Taipei	589	40.8	40.8	15.1	37.6	4.8	1.6	0.0	38.5	43.3
Colombia	685	33.9	33.9	22.9	11.6	9.6	11.7	10.4	31.7	35.9
Czech Republic	612	47.0	47.0	27.6	10.6	4.7	9.3	0.9	49.9	44.0
Denmark	508	37.0	37.0	34.3	12.7	4.3	9.2	2.5	35.5	38.3
El Salvador	599	36.4	36.4	25.8	14.6	10.4	6.3	6.6	35.0	37.6
England	614	56.9	56.9	22.2	9.7	4.8	5.3	1.1	55.5	58.3
Georgia	.	.	.	.	.	.	.	.	.	.
Germany	745	61.5	61.5	21.8	6.1	2.6	6.9	1.1	61.6	61.4
Hong Kong SAR	550	77.1	77.1	11.8	9.3	1.1	0.5	0.2	78.3	75.9
Hungary	576	48.7	48.7	31.0	9.6	4.0	5.7	0.9	47.6	50.0
Iran, Islamic Rep. of	549	24.3	24.3	37.4	12.8	9.8	12.2	3.6	25.8	22.9
Italy	635	54.9	54.9	22.4	5.4	4.1	10.4	2.8	53.0	56.7
Japan	640	68.1	68.1	15.8	11.9	0.8	1.7	1.8	68.5	67.7
Kazakhstan	570	65.3	65.3	13.6	17.8	3.2	0.2	0.0	63.0	67.8
Kuwait	532	24.2	24.2	29.2	15.6	14.2	9.9	6.9	21.7	26.7
Latvia	556	58.5	58.5	25.0	9.6	4.1	2.5	0.3	54.9	61.7
Lithuania	570	50.3	50.3	28.7	8.3	2.8	9.1	0.9	50.9	49.7
Morocco	539	25.8	25.8	24.8	23.0	12.2	7.9	6.3	26.1	25.2
Netherlands	483	57.0	57.0	27.2	9.6	3.0	1.6	1.7	56.6	57.4
New Zealand	704	45.2	45.2	28.5	14.3	6.8	4.6	0.6	43.8	46.6
Norway	589	37.6	37.6	28.0	13.1	6.6	11.8	3.1	37.3	37.8
Qatar	1012	26.9	26.9	31.3	19.0	11.1	7.6	4.2	27.7	26.0
Russian Federation	632	54.3	54.3	20.4	15.0	1.9	5.2	3.1	55.0	53.6
Scotland	551	45.5	45.5	28.2	11.8	4.0	8.1	2.5	43.1	48.0
Singapore	724	60.0	60.0	23.3	12.3	3.2	1.0	0.1	60.6	59.5
Slovak Republic	708	51.3	51.3	23.2	9.0	6.3	9.0	1.2	48.3	53.9
Slovenia	620	45.1	45.1	28.2	10.4	3.1	9.6	3.6	43.7	46.4
Sweden	680	38.6	38.6	27.8	16.0	4.2	9.8	3.5	37.0	40.0
Tunisia	589	23.1	23.1	30.1	20.9	6.7	11.8	7.4	26.3	20.5
Ukraine	615	45.2	45.2	26.7	15.5	3.4	8.7	0.5	42.0	48.1
United States	1113	50.0	50.0	31.9	9.6	4.6	2.9	1.0	49.0	51.2
Yemen	833	15.8	15.8	25.8	26.7	17.8	9.2	4.7	17.8	14.1
International Avg.	639	45.4	45.4	25.2	13.8	6.0	7.1	2.6	44.7	46.1
Alberta, Canada	583	48.3	48.3	29.5	9.7	7.2	3.6	1.8	51.2	45.5
British Columbia, Canada	583	42.8	42.8	31.8	11.1	5.9	6.8	1.7	45.8	40.1
Dubai, UAE	434	36.7	36.7	29.9	11.1	8.5	9.3	4.5	32.9	39.9
Massachusetts, US	246	57.4	57.4	23.3	9.5	2.6	6.1	1.1	59.7	54.8
Minnesota, US	266	49.0	49.0	30.6	10.3	5.5	3.0	1.6	49.2	48.8
Ontario, Canada	490	43.7	43.7	29.9	11.3	7.0	4.6	3.5	42.8	44.3
Quebec, Canada	543	42.5	42.5	29.7	10.0	7.8	7.5	2.4	44.5	40.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031258 - M03\_04)  
 Label: The rule Ann uses to get her number  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	592	11.8	1.6	43.1	39.5	4.0	11.8	10.7	12.7
Armenia	587	39.1	5.2	22.9	31.1	1.7	39.1	34.2	44.0
Australia	596	29.1	2.3	48.3	18.4	1.9	29.1	22.9	35.8
Austria	704	22.7	2.0	29.3	45.5	0.5	22.7	17.1	27.8
Chinese Taipei	589	48.3	2.5	32.2	17.0	0.0	48.3	48.2	48.5
Colombia	685	2.0	0.1	53.4	33.2	11.3	2.0	2.5	1.6
Czech Republic	611	24.1	5.3	31.0	38.5	1.2	24.1	25.6	22.5
Denmark	509	27.2	2.7	35.0	32.3	2.8	27.2	25.3	28.9
El Salvador	599	0.6	0.1	58.5	33.4	7.4	0.6	0.7	0.6
England	614	28.7	1.5	49.5	18.9	1.4	28.7	24.6	33.0
Georgia	596	22.5	9.5	24.5	41.7	1.8	22.5	23.4	21.6
Germany	745	31.4	1.1	31.1	34.9	1.5	31.4	30.5	32.3
Hong Kong SAR	550	54.2	19.3	15.0	11.3	0.2	54.2	57.7	51.0
Hungary	576	45.3	0.8	30.1	22.6	1.2	45.3	40.8	50.0
Iran, Islamic Rep. of	549	12.8	9.2	34.2	39.9	4.0	12.8	12.5	13.0
Italy	637	34.7	3.9	33.1	24.9	3.4	34.7	33.8	35.5
Japan	640	49.3	7.0	33.6	8.3	1.8	49.3	50.1	48.6
Kazakhstan	572	35.6	27.3	28.6	8.5	0.0	35.6	36.9	34.3
Kuwait	532	1.6	0.2	42.8	48.0	7.4	1.6	2.8	0.4
Latvia	556	35.3	5.0	38.0	21.5	0.3	35.3	32.6	37.7
Lithuania	570	38.2	7.0	24.7	28.6	1.5	38.2	36.9	39.5
Morocco	551	11.6	1.7	25.9	53.8	7.0	11.6	14.3	9.1
Netherlands	483	30.1	3.5	55.5	9.3	1.7	30.1	22.8	37.2
New Zealand	704	23.1	1.9	57.7	16.5	0.8	23.1	19.7	26.7
Norway	589	21.9	5.0	33.7	35.7	3.7	21.9	19.9	23.7
Qatar	1012	1.4	0.9	42.3	51.0	4.5	1.4	1.5	1.2
Russian Federation	632	43.0	16.3	25.4	12.0	3.3	43.0	44.6	41.6
Scotland	551	25.8	2.7	42.1	26.7	2.7	25.8	25.4	26.3
Singapore	724	44.9	4.1	46.5	4.4	0.1	44.9	44.8	44.9
Slovak Republic	708	29.3	3.2	30.9	35.2	1.3	29.3	26.3	31.8
Slovenia	620	19.1	9.5	46.4	21.0	4.0	19.1	16.0	22.2
Sweden	680	24.8	4.3	32.8	34.0	4.0	24.8	19.5	29.7
Tunisia	589	8.3	3.7	48.1	31.7	8.2	8.3	7.2	9.2
Ukraine	615	21.4	5.2	31.6	41.0	0.8	21.4	19.8	22.8
United States	1113	40.3	1.9	50.2	6.3	1.4	40.3	38.3	42.5
Yemen	834	4.1	0.7	47.9	42.3	4.9	4.1	3.8	4.3
International Avg.	639	26.2	4.9	37.7	28.3	2.9	26.2	24.8	27.6
Alberta, Canada	583	19.8	3.8	60.4	13.8	2.1	19.8	17.9	21.6
British Columbia, Canada	583	20.4	1.0	61.0	15.6	1.9	20.4	18.8	21.9
Dubai, UAE	434	20.2	1.8	45.8	26.8	5.4	20.2	17.1	22.8
Massachusetts, US	246	47.4	0.9	46.6	3.0	2.1	47.4	46.2	48.9
Minnesota, US	266	41.4	2.0	47.0	8.0	1.6	41.4	35.9	48.5
Ontario, Canada	490	14.5	2.2	68.5	11.2	3.5	14.5	11.0	16.9
Quebec, Canada	543	14.6	1.9	54.7	25.4	3.5	14.6	11.0	18.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031334 - M03\_05)  
 Label: The rule for 2,5,11,23  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	547	27.1	17.5	25.9	27.1	11.1	13.1	5.4	25.6	28.3
Armenia	579	50.7	7.4	16.8	50.7	4.9	17.9	2.2	48.7	52.7
Australia	596	45.2	17.5	18.9	45.2	10.1	6.0	2.4	42.0	48.6
Austria	704	29.9	15.1	22.1	29.9	7.9	24.4	0.6	25.4	33.9
Chinese Taipei	589	54.0	13.8	24.1	54.0	2.6	5.5	0.0	51.9	56.2
Colombia	685	20.7	19.7	20.7	20.7	12.8	12.5	13.7	20.0	21.3
Czech Republic	611	29.3	18.1	22.0	29.3	12.3	16.9	1.6	27.5	31.0
Denmark	508	35.9	15.2	22.6	35.9	7.5	14.3	4.6	33.9	37.7
El Salvador	599	18.3	20.2	24.0	18.3	16.4	11.5	9.5	15.7	20.7
England	614	49.3	13.2	19.1	49.3	11.0	5.6	1.8	49.3	49.3
Georgia	596	36.2	14.0	23.9	36.2	9.3	13.5	3.2	36.8	35.5
Germany	745	37.3	13.2	22.9	37.3	9.4	15.2	2.0	38.0	36.7
Hong Kong SAR	550	59.2	12.3	20.3	59.2	6.3	1.7	0.2	58.4	59.9
Hungary	576	50.7	10.7	18.2	50.7	8.0	10.4	2.1	49.8	51.6
Iran, Islamic Rep. of	549	26.5	15.5	22.2	26.5	12.3	17.7	5.8	27.4	25.7
Italy	633	45.1	16.9	16.1	45.1	6.7	10.7	4.4	42.1	47.8
Japan	640	56.8	10.3	22.1	56.8	5.4	3.1	2.3	60.7	53.1
Kazakhstan	571	69.1	12.2	14.3	69.1	4.0	0.3	0.0	73.8	64.2
Kuwait	532	23.2	19.5	23.4	23.2	11.4	13.5	9.0	26.8	19.6
Latvia	556	51.0	8.5	26.0	51.0	6.6	7.1	0.7	53.4	48.8
Lithuania	570	42.3	14.2	19.1	42.3	11.5	11.1	1.7	42.5	42.1
Morocco	524	29.9	13.9	22.0	29.9	12.6	13.0	8.5	28.5	31.4
Netherlands	483	40.6	19.1	19.3	40.6	15.8	3.3	1.8	36.6	44.6
New Zealand	704	37.9	17.7	20.8	37.9	14.1	8.0	1.4	33.1	42.9
Norway	589	30.6	20.0	21.3	30.6	11.3	12.5	4.3	29.0	32.1
Qatar	1012	26.3	25.4	22.9	26.3	11.1	8.9	5.5	27.4	25.1
Russian Federation	632	61.0	7.8	14.4	61.0	5.8	7.3	3.8	66.5	55.8
Scotland	551	32.9	16.8	20.6	32.9	13.2	12.1	4.4	32.8	33.0
Singapore	724	56.7	14.6	19.2	56.7	7.3	2.0	0.2	58.4	54.9
Slovak Republic	708	38.2	15.3	23.7	38.2	6.9	13.0	2.8	37.8	38.5
Slovenia	620	33.4	17.6	21.8	33.4	10.6	12.0	4.7	34.0	32.7
Sweden	680	29.7	12.1	23.9	29.7	11.7	16.9	5.6	27.7	31.6
Tunisia	589	32.3	10.0	22.9	32.3	9.8	15.0	10.1	35.2	29.9
Ukraine	615	40.6	15.8	25.2	40.6	9.2	8.2	0.9	44.0	37.6
United States	1113	48.1	16.3	22.4	48.1	7.9	3.2	2.1	46.9	49.6
Yemen	834	27.4	13.0	25.3	27.4	17.7	10.2	6.3	30.8	24.8
International Avg.	637	39.5	15.0	21.4	39.5	9.8	10.5	3.8	39.4	39.7
Alberta, Canada	583	39.9	19.1	20.5	39.9	11.0	6.0	3.5	39.7	40.2
British Columbia, Canada	583	33.1	21.4	21.2	33.1	13.9	7.5	2.9	35.2	31.3
Dubai, UAE	434	32.1	22.7	20.3	32.1	6.9	12.2	5.8	33.6	30.8
Massachusetts, US	246	58.6	11.1	15.9	58.6	7.7	3.8	2.9	62.6	54.2
Minnesota, US	266	49.4	15.7	18.9	49.4	11.4	2.9	1.6	47.8	51.6
Ontario, Canada	490	41.4	19.1	18.6	41.4	11.5	4.1	5.3	42.3	40.8
Quebec, Canada	543	33.1	17.9	22.9	33.1	7.8	12.5	5.8	31.1	35.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031255 - M03\_06)  
 Label: 64 divided by box equals box  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
-----										
Algeria	556	24.3	20.4	24.3	17.3	18.4	13.7	5.9	25.1	23.6
Armenia	582	59.6	8.8	59.6	3.7	12.1	13.6	2.2	60.1	59.2
Australia	595	43.5	18.0	43.5	15.0	15.5	5.7	2.4	43.7	43.3
Austria	704	56.4	13.0	56.4	5.3	8.9	15.6	0.8	53.2	59.3
Chinese Taipei	589	70.0	8.9	70.0	9.4	7.8	3.7	0.2	74.0	65.9
Colombia	685	21.4	17.2	21.4	16.1	20.0	10.8	14.3	21.8	21.1
Czech Republic	612	68.4	7.9	68.4	4.2	5.2	12.3	1.9	71.0	65.9
Denmark	501	35.1	12.6	35.1	15.7	15.9	15.2	5.5	34.0	36.1
El Salvador	599	20.1	24.5	20.1	20.2	15.2	9.4	10.6	20.4	19.9
England	614	49.5	11.0	49.5	15.4	14.0	8.3	1.8	50.4	48.4
Georgia	596	69.2	10.5	69.2	5.1	7.2	4.6	3.4	73.3	65.3
Germany	745	68.1	5.6	68.1	3.8	8.1	12.3	2.1	74.1	62.3
Hong Kong SAR	550	82.4	5.6	82.4	3.8	5.3	2.7	0.2	84.4	80.6
Hungary	576	70.5	7.0	70.5	5.0	8.1	7.2	2.2	71.5	69.4
Iran, Islamic Rep. of	549	51.4	9.5	51.4	11.1	10.8	10.7	6.5	56.4	46.9
Italy	630	47.7	15.9	47.7	8.7	11.1	11.4	5.2	50.6	45.0
Japan	640	81.9	2.8	81.9	4.3	6.5	2.4	2.3	85.3	78.6
Kazakhstan	570	87.5	4.6	87.5	4.5	3.4	0.0	0.0	85.4	89.7
Kuwait	532	43.8	12.9	43.8	13.0	9.5	11.7	9.0	45.2	42.3
Latvia	556	67.4	5.0	67.4	5.1	16.1	4.7	1.7	73.3	62.2
Lithuania	570	67.0	7.9	67.0	4.4	7.6	11.1	2.1	71.5	62.3
Morocco	533	23.6	15.1	23.6	22.6	20.6	9.1	8.9	22.9	24.0
Netherlands	483	64.2	8.0	64.2	6.7	13.2	5.6	2.3	63.2	65.1
New Zealand	704	40.7	18.7	40.7	14.4	16.2	7.8	2.1	42.1	39.2
Norway	589	38.1	15.3	38.1	11.5	17.2	12.3	5.6	42.0	34.5
Qatar	1012	32.3	20.5	32.3	17.1	16.6	7.4	6.0	37.4	26.8
Russian Federation	632	79.1	3.5	79.1	3.9	6.3	2.7	4.4	81.1	77.3
Scotland	551	46.6	14.3	46.6	10.1	11.3	12.2	5.4	46.0	47.3
Singapore	724	81.0	5.9	81.0	5.8	6.5	0.4	0.4	81.2	80.8
Slovak Republic	708	72.6	7.4	72.6	4.7	4.9	7.1	3.4	73.8	71.6
Slovenia	620	73.9	7.4	73.9	3.8	5.7	3.8	5.3	76.3	71.5
Sweden	680	26.6	8.6	26.6	15.3	24.8	18.5	6.1	28.3	25.0
Tunisia	589	25.9	12.6	25.9	18.7	19.2	13.2	10.5	27.0	25.0
Ukraine	615	68.3	8.9	68.3	8.5	8.4	4.3	1.5	72.4	64.5
United States	1113	69.3	10.0	69.3	7.3	7.5	3.3	2.5	69.7	68.8
Yemen	830	26.9	13.6	26.9	23.7	20.7	8.3	6.6	26.4	27.3
-----										
International Avg.	637	54.3	11.1	54.3	10.1	11.8	8.4	4.2	56.0	52.7
-----										
Alberta, Canada	583	48.6	15.6	48.6	13.4	13.1	5.5	3.9	48.6	48.5
British Columbia, Canada	583	43.7	13.1	43.7	14.5	15.6	9.7	3.4	47.6	40.3
Dubai, UAE	434	45.8	14.1	45.8	11.7	13.5	7.8	7.2	51.6	40.9
Massachusetts, US	246	71.7	5.4	71.7	5.8	10.2	3.7	3.2	72.1	71.3
Minnesota, US	266	72.2	7.9	72.2	8.7	7.0	2.5	1.6	73.5	70.6
Ontario, Canada	490	38.3	12.9	38.3	17.2	21.4	4.3	5.8	33.1	42.0
Quebec, Canada	543	51.3	9.4	51.3	11.1	8.9	12.3	6.9	53.2	49.5
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DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031041 - M03\_07)  
 Label: Triangular tiles to cover the figure  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED			
							V1	1.GIRL %Right	2.BOY %Right
Algeria	593	14.6	2.7	54.6	21.2	6.9	14.6	15.0	14.1
Armenia	588	53.6	2.2	35.8	6.3	2.2	53.6	54.6	52.6
Australia	596	51.8	6.6	37.4	1.7	2.5	51.8	52.7	50.8
Austria	704	40.3	7.6	46.1	5.0	1.0	40.3	39.4	41.1
Chinese Taipei	589	68.2	3.9	25.7	2.0	0.2	68.2	72.5	63.7
Colombia	685	14.1	5.3	57.6	7.3	15.6	14.1	12.0	16.1
Czech Republic	612	41.5	5.8	44.2	6.5	2.1	41.5	42.6	40.3
Denmark	509	50.6	7.4	32.0	3.6	6.4	50.6	53.4	48.1
El Salvador	599	7.8	1.5	71.4	8.0	11.4	7.8	6.2	9.1
England	614	53.9	4.1	36.9	3.1	1.9	53.9	57.1	50.5
Georgia	596	24.3	3.1	56.6	12.5	3.4	24.3	27.3	21.5
Germany	745	39.7	6.0	46.7	5.2	2.4	39.7	42.7	36.9
Hong Kong SAR	550	76.9	3.1	19.3	0.5	0.2	76.9	79.1	74.9
Hungary	576	48.2	4.6	40.3	4.4	2.5	48.2	48.0	48.4
Iran, Islamic Rep. of	549	19.1	6.8	52.2	14.7	7.2	19.1	22.5	16.0
Italy	637	45.7	3.3	39.2	6.0	5.8	45.7	45.0	46.3
Japan	640	67.8	4.3	25.0	0.6	2.3	67.8	71.4	64.3
Kazakhstan	572	57.4	3.0	38.7	0.8	0.2	57.4	59.8	54.8
Kuwait	532	9.1	2.2	49.8	28.5	10.4	9.1	10.1	8.2
Latvia	556	55.4	4.5	36.4	2.0	1.7	55.4	59.5	51.6
Lithuania	570	47.5	4.8	42.9	2.4	2.5	47.5	47.7	47.2
Morocco	553	9.5	3.3	50.4	27.4	9.3	9.5	11.1	7.7
Netherlands	483	60.5	6.6	30.3	0.3	2.3	60.5	56.9	63.9
New Zealand	704	38.6	5.7	50.0	3.2	2.5	38.6	39.0	38.1
Norway	589	29.2	6.6	53.5	4.7	6.0	29.2	28.9	29.4
Qatar	1012	3.8	1.7	67.0	20.6	6.9	3.8	4.4	3.2
Russian Federation	632	59.2	5.0	30.7	0.7	4.4	59.2	64.6	54.1
Scotland	551	40.7	5.6	45.1	2.7	5.8	40.7	44.6	36.7
Singapore	724	69.3	3.0	27.1	0.1	0.5	69.3	73.9	64.7
Slovak Republic	708	44.9	3.8	40.8	6.8	3.7	44.9	47.8	42.5
Slovenia	620	47.2	3.6	41.5	1.9	5.7	47.2	47.0	47.5
Sweden	680	43.8	7.1	38.1	4.2	6.8	43.8	43.0	44.4
Tunisia	589	8.4	2.9	64.5	12.8	11.4	8.4	7.7	8.9
Ukraine	615	32.5	2.8	56.6	6.2	2.0	32.5	31.5	33.3
United States	1113	50.3	9.5	35.2	2.2	2.8	50.3	54.2	45.8
Yemen	830	3.1	1.5	65.7	22.2	7.5	3.1	1.7	4.2
International Avg.	639	39.7	4.5	44.0	7.2	4.6	39.7	41.0	38.4
Alberta, Canada	583	49.2	8.2	36.3	2.0	4.3	49.2	51.3	47.2
British Columbia, Canada	583	50.0	8.5	34.8	2.1	4.6	50.0	51.1	49.1
Dubai, UAE	434	18.9	4.2	63.2	6.3	7.5	18.9	20.0	18.0
Massachusetts, US	246	65.0	8.2	21.1	2.2	3.6	65.0	73.2	56.0
Minnesota, US	266	60.9	12.0	21.0	4.4	1.6	60.9	62.3	59.1
Ontario, Canada	490	56.6	5.7	31.3	0.6	5.8	56.6	63.3	52.0
Quebec, Canada	543	58.1	4.3	28.4	1.5	7.7	58.1	63.6	52.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031350A - M03\_08A)

Label: Marytown\_Add a park

Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	593	4.8	27.9	56.5	10.8	4.8	5.2	4.6
Armenia	591	20.6	28.3	47.7	3.3	20.6	19.3	22.0
Australia	596	39.5	50.3	7.4	2.8	39.5	36.0	43.3
Austria	704	40.3	41.9	16.8	1.1	40.3	40.4	40.2
Chinese Taipei	589	64.7	27.1	8.1	0.2	64.7	65.0	64.3
Colombia	685	5.1	43.1	32.1	19.8	5.1	3.8	6.2
Czech Republic	612	50.2	35.6	11.8	2.4	50.2	50.3	50.0
Denmark	509	56.3	23.1	14.2	6.4	56.3	53.4	59.0
El Salvador	599	1.9	48.0	37.2	13.0	1.9	1.6	2.1
England	614	41.4	46.1	10.5	1.9	41.4	42.0	40.7
Georgia	595	10.7	33.6	49.0	6.7	10.7	11.2	10.2
Germany	745	39.2	45.3	12.5	3.0	39.2	37.3	41.1
Hong Kong SAR	550	54.5	40.9	4.5	0.2	54.5	53.6	55.3
Hungary	576	36.4	48.3	11.4	3.9	36.4	34.0	38.9
Iran, Islamic Rep. of	549	11.9	45.5	32.3	10.4	11.9	16.7	7.4
Italy	637	29.7	43.0	20.1	7.2	29.7	24.2	34.7
Japan	640	69.2	23.8	4.6	2.5	69.2	71.2	67.3
Kazakhstan	572	47.3	39.2	13.2	0.3	47.3	49.4	45.1
Kuwait	532	3.2	42.9	38.8	15.1	3.2	2.5	3.9
Latvia	556	47.3	38.9	12.0	1.7	47.3	49.0	45.8
Lithuania	570	37.4	42.5	16.9	3.2	37.4	37.9	36.8
Morocco	554	4.1	11.5	70.6	13.8	4.1	5.4	3.0
Netherlands	483	44.9	40.6	12.1	2.3	44.9	40.4	49.4
New Zealand	704	35.1	52.2	9.3	3.3	35.1	31.2	39.2
Norway	589	37.5	42.1	13.4	7.0	37.5	33.9	40.7
Qatar	1012	0.9	42.7	45.9	10.5	0.9	0.8	1.0
Russian Federation	632	48.2	34.3	12.7	4.7	48.2	48.5	48.0
Scotland	551	26.5	52.6	14.4	6.4	26.5	27.6	25.4
Singapore	724	45.6	50.4	3.5	0.5	45.6	44.1	47.2
Slovak Republic	708	54.5	30.4	10.9	4.2	54.5	46.1	61.5
Slovenia	620	44.0	37.9	11.8	6.3	44.0	44.4	43.6
Sweden	680	49.6	33.9	8.3	8.1	49.6	46.2	52.8
Tunisia	589	8.2	57.9	19.3	14.6	8.2	6.7	9.4
Ukraine	615	21.1	47.5	28.8	2.6	21.1	18.3	23.7
United States	1113	23.9	64.3	8.7	3.0	23.9	20.9	27.5
Yemen	832	1.9	48.6	38.5	11.0	1.9	2.1	1.7
International Avg.	639	32.2	40.6	21.3	6.0	32.2	31.1	33.1
Alberta, Canada	583	35.5	47.0	12.4	5.0	35.5	33.9	36.9
British Columbia, Canada	583	27.8	53.0	14.3	4.9	27.8	27.7	27.9
Dubai, UAE	434	15.2	44.6	31.6	8.5	15.2	13.7	16.5
Massachusetts, US	246	38.9	51.7	5.5	3.9	38.9	40.6	37.0
Minnesota, US	266	43.4	51.0	2.8	2.8	43.4	42.4	44.6
Ontario, Canada	490	34.4	47.1	12.6	5.8	34.4	31.6	36.5
Quebec, Canada	543	42.4	39.1	10.5	8.0	42.4	39.7	45.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M031350B - M03\_08B)  
 Label: Marytown\_Add a library  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	594	6.6	1.0	0.9	22.9	53.2	15.4	6.6	8.6	5.0
Armenia	591	14.4	4.2	0.2	29.8	45.0	6.4	14.4	15.4	13.4
Australia	596	59.2	11.4	7.7	11.8	3.9	5.9	59.2	60.4	57.9
Austria	704	50.9	6.1	4.5	19.0	15.6	3.9	50.9	52.5	49.6
Chinese Taipei	589	73.8	2.1	1.2	14.4	7.5	1.0	73.8	76.1	71.3
Colombia	685	10.8	4.0	7.2	26.0	25.3	26.7	10.8	8.4	13.0
Czech Republic	612	59.4	4.2	7.3	13.9	10.1	5.1	59.4	59.2	59.5
Denmark	509	55.0	1.1	0.7	21.7	12.7	8.8	55.0	53.1	56.8
El Salvador	599	6.6	3.2	7.9	31.9	32.5	18.0	6.6	7.6	5.6
England	614	57.7	7.6	10.3	11.5	9.2	3.8	57.7	61.7	53.4
Georgia	595	22.2	0.9	1.1	17.7	43.3	14.8	22.2	21.1	23.3
Germany	745	51.7	14.7	4.0	14.2	9.1	6.3	51.7	57.8	45.9
Hong Kong SAR	550	73.9	5.1	5.7	10.7	3.7	0.8	73.9	76.3	71.6
Hungary	576	50.7	5.9	9.1	19.4	9.5	5.5	50.7	49.6	51.9
Iran, Islamic Rep. of	549	20.8	1.8	8.6	10.2	40.8	17.9	20.8	25.1	16.8
Italy	637	43.6	4.6	6.2	18.1	17.3	10.3	43.6	40.6	46.4
Japan	640	70.1	2.8	6.0	13.4	3.2	4.4	70.1	73.7	66.6
Kazakhstan	572	55.6	6.8	6.9	16.3	11.9	2.4	55.6	58.1	53.1
Kuwait	532	6.0	0.8	3.3	21.5	48.8	19.7	6.0	8.0	4.1
Latvia	556	62.9	1.0	2.4	16.9	14.0	2.7	62.9	66.3	59.8
Lithuania	570	54.0	4.8	5.4	13.5	17.5	4.9	54.0	58.3	49.5
Morocco	554	4.4	0.3	0.8	9.0	68.0	17.5	4.4	5.0	3.9
Netherlands	483	59.7	2.7	1.8	21.8	11.3	2.7	59.7	61.9	57.5
New Zealand	704	48.5	12.3	8.4	15.8	10.4	4.6	48.5	46.3	50.7
Norway	589	51.1	4.6	7.7	8.6	18.2	9.9	51.1	51.7	50.5
Qatar	1012	2.4	0.3	2.4	39.2	40.7	14.9	2.4	2.9	2.0
Russian Federation	632	61.4	4.4	7.7	8.2	11.1	7.1	61.4	65.3	57.8
Scotland	551	40.8	10.3	11.2	15.7	12.0	10.0	40.8	44.7	36.8
Singapore	724	53.0	10.8	11.3	20.4	3.3	1.1	53.0	54.4	51.7
Slovak Republic	708	58.9	1.7	4.0	20.3	8.4	6.7	58.9	54.8	62.3
Slovenia	620	54.9	2.9	8.0	12.3	14.1	7.8	54.9	56.8	53.0
Sweden	680	63.9	5.9	4.7	7.6	7.7	10.2	63.9	61.4	66.2
Tunisia	589	9.7	0.1	0.9	45.2	24.6	19.5	9.7	7.8	11.1
Ukraine	615	35.8	2.9	7.5	18.5	27.4	7.8	35.8	34.2	37.4
United States	1113	45.1	7.8	11.5	23.7	6.7	5.1	45.1	44.1	46.2
Yemen	831	1.3	0.0	0.4	56.2	27.8	14.4	1.3	1.9	0.7
International Avg.	639	41.6	4.5	5.4	19.4	20.2	9.0	41.6	42.5	40.6
Alberta, Canada	583	53.3	7.0	6.4	14.7	10.9	7.7	53.3	54.0	52.6
British Columbia, Canada	583	47.5	8.4	6.9	16.9	13.1	7.1	47.5	49.6	45.6
Dubai, UAE	434	23.2	3.5	1.9	29.9	28.3	13.1	23.2	22.7	23.7
Massachusetts, US	246	56.4	10.9	10.2	11.8	4.0	6.7	56.4	58.2	54.5
Minnesota, US	266	61.1	9.0	8.0	15.9	2.2	3.7	61.1	61.4	60.7
Ontario, Canada	490	53.2	5.8	12.6	9.5	11.5	7.4	53.2	51.1	54.6
Quebec, Canada	543	51.7	3.7	14.3	10.4	9.2	10.8	51.7	49.9	53.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031350C - M03\_08C)  
 Label: Marytown\_Add a school  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	594	4.4	2.5	23.7	53.8	15.5	4.4	4.4	4.5
Armenia	591	14.4	4.3	30.3	44.6	6.4	14.4	13.3	15.5
Australia	596	42.8	31.8	14.1	5.3	6.0	42.8	45.3	40.2
Austria	704	35.9	23.7	20.0	16.1	4.3	35.9	33.3	38.3
Chinese Taipei	589	33.4	21.7	34.1	9.9	1.0	33.4	32.8	34.0
Colombia	685	7.3	11.6	29.6	24.4	27.1	7.3	7.2	7.4
Czech Republic	612	39.7	24.7	17.4	13.0	5.2	39.7	40.3	39.1
Denmark	509	45.3	3.3	29.8	12.8	8.8	45.3	44.4	46.1
El Salvador	599	4.4	5.4	36.9	34.7	18.6	4.4	4.7	4.1
England	614	36.9	37.7	12.2	9.2	4.0	36.9	41.9	31.7
Georgia	595	14.2	3.8	23.9	42.7	15.4	14.2	13.2	15.2
Germany	745	37.7	26.8	20.6	8.4	6.4	37.7	34.2	41.1
Hong Kong SAR	550	43.7	33.9	16.9	4.7	0.8	43.7	44.4	43.0
Hungary	576	27.2	35.6	20.6	11.1	5.5	27.2	22.6	32.2
Iran, Islamic Rep. of	549	9.5	12.7	16.5	41.6	19.8	9.5	12.8	6.5
Italy	637	23.7	5.7	41.5	18.9	10.3	23.7	23.4	23.9
Japan	640	43.1	34.0	13.9	4.3	4.6	43.1	43.4	42.9
Kazakhstan	572	36.2	17.4	31.9	11.9	2.6	36.2	35.5	36.9
Kuwait	532	1.5	0.6	26.1	51.2	20.6	1.5	1.9	1.2
Latvia	556	34.1	16.1	32.9	14.0	2.8	34.1	32.7	35.4
Lithuania	570	24.1	39.2	14.4	16.4	5.9	24.1	24.2	23.9
Morocco	554	2.6	1.4	8.4	69.9	17.7	2.6	4.2	1.2
Netherlands	483	40.8	23.3	18.2	14.4	3.2	40.8	43.1	38.6
New Zealand	704	34.2	31.8	17.9	11.4	4.7	34.2	32.6	35.9
Norway	589	28.6	26.7	15.2	17.8	11.7	28.6	27.4	29.7
Qatar	1012	1.6	1.0	40.3	42.1	15.0	1.6	1.6	1.6
Russian Federation	632	39.6	30.1	9.0	13.9	7.4	39.6	45.3	34.3
Scotland	551	23.1	36.6	17.7	12.2	10.3	23.1	23.0	23.3
Singapore	724	36.0	37.9	21.9	3.1	1.1	36.0	39.6	32.3
Slovak Republic	708	38.0	7.4	39.1	8.8	6.8	38.0	29.9	44.7
Slovenia	620	35.0	26.2	14.6	15.8	8.4	35.0	35.6	34.4
Sweden	680	45.4	26.3	9.4	8.4	10.6	45.4	43.1	47.5
Tunisia	589	5.5	2.0	46.6	25.3	20.6	5.5	4.2	6.6
Ukraine	615	19.0	19.8	25.7	26.9	8.5	19.0	18.2	19.6
United States	1113	25.8	35.0	27.4	6.7	5.1	25.8	28.3	22.9
Yemen	832	0.8	0.4	51.6	32.4	14.7	0.8	1.3	0.4
International Avg.	639	26.0	19.4	24.2	21.1	9.4	26.0	25.9	26.0
Alberta, Canada	583	30.1	33.9	16.1	11.3	8.6	30.1	30.2	30.0
British Columbia, Canada	583	29.3	31.2	17.6	14.1	7.8	29.3	30.5	28.3
Dubai, UAE	434	12.3	9.6	37.0	27.6	13.5	12.3	14.0	10.9
Massachusetts, US	246	37.5	34.4	17.4	3.1	7.6	37.5	35.6	39.6
Minnesota, US	266	38.3	36.6	19.2	1.9	4.1	38.3	35.2	42.1
Ontario, Canada	490	27.9	39.1	13.2	11.9	7.9	27.9	26.2	29.1
Quebec, Canada	543	33.3	33.0	11.4	10.6	11.6	33.3	34.2	32.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031274 - M03\_09)  
 Label: Draw the reflection of the shape  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	596	37.2	13.2	5.3	18.7	10.0	15.6	37.2	39.3	35.4
Armenia	591	40.3	7.2	7.0	22.0	17.0	6.5	40.3	41.2	39.4
Australia	596	62.1	20.4	0.9	8.3	1.9	6.5	62.1	57.7	66.7
Austria	704	68.6	12.3	1.5	6.7	6.6	4.4	68.6	66.3	70.7
Chinese Taipei	589	59.6	7.5	7.3	18.6	5.9	1.1	59.6	60.0	59.2
Colombia	685	18.8	8.7	8.1	15.0	21.3	28.0	18.8	14.8	22.6
Czech Republic	612	48.0	15.0	1.3	12.3	17.8	5.6	48.0	48.9	47.1
Denmark	509	78.4	5.0	0.2	3.7	3.9	8.9	78.4	79.6	77.2
El Salvador	599	10.9	8.0	12.2	27.2	22.5	19.1	10.9	10.7	11.0
England	614	62.9	21.0	1.6	7.5	2.5	4.5	62.9	61.5	64.4
Georgia	596	19.3	11.7	0.0	16.3	36.5	16.2	19.3	20.3	18.4
Germany	745	66.5	15.5	1.1	4.2	6.3	6.4	66.5	69.6	63.6
Hong Kong SAR	550	94.8	1.7	0.2	0.7	1.8	0.8	94.8	96.3	93.3
Hungary	576	66.3	12.9	2.3	6.1	6.3	6.2	66.3	62.6	70.2
Iran, Islamic Rep. of	549	36.4	18.1	1.9	12.8	10.9	19.9	36.4	38.1	34.9
Italy	637	61.3	12.0	1.5	9.1	5.7	10.4	61.3	59.6	62.9
Japan	640	68.2	6.3	2.8	13.7	4.4	4.6	68.2	72.9	63.7
Kazakhstan	572	66.6	5.5	0.4	18.2	6.7	2.6	66.6	70.7	62.4
Kuwait	532	4.1	7.6	6.0	32.0	29.1	21.2	4.1	5.6	2.5
Latvia	556	77.1	9.5	0.9	4.7	4.7	3.2	77.1	80.3	74.1
Lithuania	569	69.1	13.9	1.6	4.5	4.7	6.1	69.1	72.9	65.3
Morocco	554	44.2	10.9	5.7	11.8	9.5	17.9	44.2	45.4	43.0
Netherlands	483	63.7	21.3	4.8	5.0	1.7	3.5	63.7	53.6	73.6
New Zealand	704	62.1	17.7	2.7	8.9	3.4	5.2	62.1	61.8	62.4
Norway	589	57.2	13.4	5.6	6.9	4.2	12.7	57.2	59.1	55.6
Qatar	1012	9.4	11.5	25.3	14.2	24.2	15.4	9.4	11.7	6.9
Russian Federation	632	63.1	6.1	3.4	9.8	9.4	8.2	63.1	67.6	58.9
Scotland	551	46.2	29.0	1.4	7.7	5.0	10.8	46.2	45.0	47.5
Singapore	724	86.4	7.9	0.3	3.3	0.9	1.1	86.4	85.9	87.0
Slovak Republic	708	54.2	12.8	3.8	13.5	9.0	6.8	54.2	55.3	53.2
Slovenia	620	75.6	10.4	0.0	2.8	2.7	8.5	75.6	75.9	75.3
Sweden	680	57.5	11.6	6.4	6.7	6.6	11.2	57.5	57.7	57.4
Tunisia	589	4.4	3.9	17.0	31.5	22.3	20.8	4.4	4.6	4.3
Ukraine	615	30.1	7.9	2.3	22.0	28.9	8.9	30.1	35.6	25.0
United States	1113	49.6	26.8	4.2	11.6	2.7	5.1	49.6	46.6	53.0
Yemen	833	1.0	5.3	1.3	43.9	32.6	15.9	1.0	1.1	0.9
International Avg.	640	50.6	11.9	4.1	12.8	10.8	9.7	50.6	51.0	50.3
Alberta, Canada	583	55.9	19.4	3.1	8.7	3.7	9.2	55.9	55.1	56.6
British Columbia, Canada	583	47.7	26.0	4.5	8.3	5.4	8.1	47.7	48.0	47.5
Dubai, UAE	434	39.1	11.4	6.0	20.2	9.7	13.6	39.1	43.4	35.6
Massachusetts, US	246	57.8	20.0	3.2	6.3	4.6	8.0	57.8	54.6	61.4
Minnesota, US	266	63.9	20.2	1.8	7.5	2.4	4.1	63.9	63.9	64.1
Ontario, Canada	490	55.6	19.2	6.2	6.3	4.4	8.3	55.6	53.3	57.2
Quebec, Canada	543	62.0	13.7	0.8	5.4	5.6	12.5	62.0	59.9	64.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M031240 - M03\_10)  
 Label: Complete table by gender with hats  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
							%Right	%Right	%Right
Algeria	592	20.1	5.3	41.1	16.5	17.0	20.1	22.2	18.4
Armenia	590	43.5	9.8	23.5	15.9	7.3	43.5	50.9	36.1
Australia	596	69.9	6.9	13.1	2.2	7.9	69.9	68.7	71.2
Austria	704	52.1	12.2	24.1	5.5	6.1	52.1	50.7	53.3
Chinese Taipei	589	79.7	8.5	9.0	1.0	1.8	79.7	82.7	76.6
Colombia	685	15.6	8.3	31.2	10.8	34.1	15.6	16.9	14.5
Czech Republic	612	49.4	14.8	21.5	4.1	10.1	49.4	48.7	50.1
Denmark	509	65.7	4.9	13.3	5.3	10.7	65.7	66.0	65.4
El Salvador	599	21.2	15.6	33.4	8.6	21.3	21.2	19.4	22.7
England	614	64.7	16.3	11.2	1.1	6.6	64.7	66.3	63.0
Georgia	596	25.1	15.5	33.3	8.7	17.4	25.1	30.0	20.4
Germany	745	54.3	9.3	21.1	5.0	10.3	54.3	52.1	56.4
Hong Kong SAR	550	83.9	3.3	6.3	4.3	2.3	83.9	87.7	80.3
Hungary	576	31.8	34.6	21.0	3.2	9.4	31.8	35.4	28.0
Iran, Islamic Rep. of	549	18.2	16.8	33.0	10.1	21.9	18.2	21.7	15.0
Italy	637	49.1	14.4	16.6	6.5	13.4	49.1	48.6	49.5
Japan	640	81.5	0.2	6.6	4.7	7.0	81.5	83.5	79.5
Kazakhstan	572	68.8	6.3	19.3	1.9	3.7	68.8	71.2	66.3
Kuwait	532	11.1	5.4	42.7	17.5	23.3	11.1	14.4	7.9
Latvia	556	53.9	10.3	26.1	4.0	5.8	53.9	60.0	48.3
Lithuania	570	65.8	7.6	7.7	10.6	8.2	65.8	71.8	59.7
Morocco	552	19.6	8.3	29.9	23.9	18.3	19.6	19.7	19.5
Netherlands	483	65.3	7.2	21.7	1.9	3.9	65.3	63.3	67.2
New Zealand	704	62.9	11.0	15.1	3.8	7.1	62.9	65.7	59.9
Norway	589	52.6	8.7	17.1	6.5	15.1	52.6	55.8	49.7
Qatar	1012	8.0	3.7	57.3	13.7	17.3	8.0	8.8	7.0
Russian Federation	632	74.5	2.8	10.1	2.6	10.0	74.5	77.4	71.8
Scotland	551	52.7	14.8	15.9	3.7	12.8	52.7	55.4	49.9
Singapore	723	80.4	6.6	9.9	1.2	2.0	80.4	83.1	77.6
Slovak Republic	708	47.6	15.3	21.6	5.9	9.6	47.6	53.5	42.7
Slovenia	620	48.1	24.0	12.4	4.9	10.6	48.1	48.3	47.9
Sweden	680	57.4	7.6	15.2	5.7	14.1	57.4	54.7	59.9
Tunisia	589	17.2	5.7	44.0	8.5	24.5	17.2	19.8	15.2
Ukraine	615	44.2	19.5	20.5	4.5	11.3	44.2	51.2	37.8
United States	1113	69.0	6.9	12.7	5.0	6.4	69.0	70.1	67.7
Yemen	834	5.3	0.5	53.2	20.0	21.0	5.3	5.2	5.4
International Avg.	639	48.1	10.3	22.6	7.2	11.9	48.1	50.0	46.2
Alberta, Canada	583	67.0	7.5	12.1	3.3	10.1	67.0	66.9	67.0
British Columbia, Canada	583	65.6	7.4	12.8	4.8	9.4	65.6	66.1	65.3
Dubai, UAE	434	33.1	9.6	31.5	10.9	15.0	33.1	37.6	29.3
Massachusetts, US	246	67.8	7.0	8.3	6.4	10.4	67.8	66.5	69.3
Minnesota, US	266	65.1	8.5	14.3	6.3	5.8	65.1	64.8	65.5
Ontario, Canada	490	67.6	8.6	9.9	2.7	11.2	67.6	69.3	66.4
Quebec, Canada	543	57.7	10.0	11.8	4.5	16.1	57.7	56.4	58.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041052 - M04\_01)  
 Label: Representing number from word  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	75.2	4.2	75.2	8.8	1.7	5.7	4.4	76.9	73.6
Armenia	585	53.4	8.6	53.4	28.0	1.1	7.4	1.5	51.4	55.5
Australia	600	66.6	6.7	66.6	23.9	0.6	1.3	0.9	62.4	70.7
Austria	694	79.6	5.2	79.6	13.1	1.2	0.9	0.1	76.2	82.5
Chinese Taipei	587	89.3	3.1	89.3	5.9	0.4	1.2	0.0	88.8	89.9
Colombia	682	19.8	8.0	19.8	51.0	7.9	6.0	7.2	20.7	18.9
Czech Republic	605	70.9	1.7	70.9	23.4	1.4	1.8	0.9	68.4	73.0
Denmark	492	80.0	5.0	80.0	11.0	1.4	2.1	0.5	77.3	82.9
El Salvador	594	20.0	13.3	20.0	49.3	6.2	8.2	3.0	17.5	22.3
England	624	84.0	4.7	84.0	9.2	1.8	0.3	0.1	83.6	84.3
Georgia	587	49.7	9.8	49.7	29.4	4.7	4.4	1.9	48.7	50.6
Germany	735	84.4	2.9	84.4	10.0	0.4	1.2	1.0	78.8	89.6
Hong Kong SAR	545	81.3	3.2	81.3	13.4	1.7	0.4	0.0	81.0	81.5
Hungary	579	82.1	2.7	82.1	12.0	0.9	0.8	1.4	81.6	82.7
Iran, Islamic Rep. of	552	66.6	8.1	66.6	12.5	6.0	4.7	2.2	68.0	65.4
Italy	636	69.1	2.3	69.1	26.0	0.8	1.0	0.9	66.0	72.0
Japan	635	83.4	1.7	83.4	12.8	1.2	0.8	0.1	82.2	84.6
Kazakhstan	570	72.6	2.4	72.6	24.7	0.2	0.2	0.0	74.9	70.1
Kuwait	546	76.1	5.6	76.1	8.5	2.8	4.9	2.1	80.3	71.7
Latvia	548	81.0	2.3	81.0	15.8	0.4	0.4	0.2	79.9	81.9
Lithuania	574	73.2	4.1	73.2	21.5	0.0	1.1	0.0	73.3	73.2
Morocco	514	64.5	5.4	64.5	13.2	5.1	6.3	5.5	62.7	66.1
Netherlands	481	88.1	2.1	88.1	8.3	0.7	0.5	0.3	84.7	91.2
New Zealand	697	70.2	6.6	70.2	19.3	1.3	1.7	0.9	70.2	70.3
Norway	589	68.1	5.6	68.1	19.6	1.6	2.4	2.7	63.5	72.6
Qatar	1007	60.3	9.5	60.3	18.7	5.8	4.4	1.3	61.8	58.6
Russian Federation	639	81.7	1.8	81.7	14.6	0.3	0.5	0.9	82.4	81.2
Scotland	548	73.2	5.3	73.2	16.9	1.3	2.4	1.0	68.6	77.5
Singapore	716	86.1	2.2	86.1	11.1	0.4	0.0	0.2	83.8	88.2
Slovak Republic	707	80.8	3.3	80.8	14.7	0.3	0.7	0.2	78.7	82.8
Slovenia	622	72.9	2.4	72.9	22.6	0.4	0.9	1.0	68.6	77.1
Sweden	670	79.5	3.3	79.5	14.7	0.6	0.5	1.3	75.4	83.5
Tunisia	590	59.4	5.2	59.4	12.1	4.9	11.2	7.1	62.6	56.6
Ukraine	620	67.5	4.7	67.5	23.9	1.4	1.8	0.6	68.1	66.9
United States	1121	79.4	2.1	79.4	16.2	0.4	1.4	0.5	76.1	83.4
Yemen	837	48.4	9.2	48.4	17.8	9.7	12.1	2.7	52.6	45.1
International Avg.	636	70.5	4.8	70.5	18.2	2.1	2.8	1.5	69.4	71.6
Alberta, Canada	584	75.7	4.4	75.7	17.3	0.7	1.3	0.6	70.2	80.8
British Columbia, Canada	581	73.1	3.7	73.1	18.6	1.1	3.1	0.4	68.6	77.4
Dubai, UAE	442	67.4	5.9	67.4	22.1	1.9	2.2	0.5	66.4	68.3
Massachusetts, US	254	88.0	0.7	88.0	8.7	0.0	1.9	0.7	86.0	90.1
Minnesota, US	263	86.7	3.6	86.7	8.0	0.4	0.6	0.7	83.7	90.0
Ontario, Canada	490	73.4	2.3	73.4	22.1	0.2	1.1	0.9	72.1	74.4
Quebec, Canada	548	86.0	1.6	86.0	10.7	0.2	1.3	0.3	84.0	88.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041056 - M04\_02)  
 Label: Draw a circle around the cookies  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT	V1	1.GIRL %Right	2.BOY %Right
						REACH ED			
-----									
Algeria	600	14.5	17.0	29.0	34.0	5.4	14.5	12.1	16.8
Armenia	586	64.7	8.2	12.3	13.2	1.6	64.7	66.6	62.7
Australia	600	39.2	29.6	25.5	4.8	0.9	39.2	36.4	41.9
Austria	694	26.8	31.1	24.5	17.5	0.1	26.8	23.3	29.9
Chinese Taipei	587	58.0	18.6	21.0	2.4	0.0	58.0	53.8	62.4
Colombia	682	19.8	24.1	21.8	25.2	9.0	19.8	17.9	21.5
Czech Republic	605	25.1	26.2	24.6	23.0	1.1	25.1	24.4	25.6
Denmark	493	49.3	23.6	21.3	5.0	0.9	49.3	46.2	52.6
El Salvador	594	9.9	18.0	28.3	39.1	4.7	9.9	11.9	8.1
England	624	47.3	31.6	17.0	4.0	0.1	47.3	43.9	50.9
Georgia	587	33.5	18.8	18.6	26.3	2.7	33.5	32.0	34.8
Germany	735	26.5	22.2	33.9	16.4	1.0	26.5	24.9	28.0
Hong Kong SAR	545	85.0	5.8	8.7	0.4	0.0	85.0	83.3	86.6
Hungary	579	54.1	23.1	15.7	5.1	2.0	54.1	55.3	52.9
Iran, Islamic Rep. of	552	20.8	37.9	18.6	20.2	2.6	20.8	22.1	19.5
Italy	638	39.6	29.5	19.3	10.5	1.0	39.6	36.2	42.8
Japan	635	53.7	32.5	11.1	2.5	0.2	53.7	55.6	51.8
Kazakhstan	570	70.4	8.0	12.8	8.7	0.1	70.4	67.5	73.5
Kuwait	546	6.5	20.1	42.7	28.6	2.1	6.5	9.3	3.6
Latvia	548	63.4	18.1	15.3	2.9	0.3	63.4	62.1	64.4
Lithuania	574	61.0	17.6	15.1	6.1	0.2	61.0	58.2	63.6
Morocco	538	16.4	11.5	15.4	51.3	5.5	16.4	18.1	15.0
Netherlands	481	55.5	24.3	18.3	1.7	0.3	55.5	46.2	63.9
New Zealand	697	37.6	36.8	19.8	4.6	1.1	37.6	36.8	38.5
Norway	589	32.3	31.1	27.5	6.0	3.2	32.3	31.7	32.9
Qatar	1007	7.6	17.7	39.7	33.4	1.6	7.6	9.2	5.9
Russian Federation	639	67.6	15.9	9.5	6.1	0.9	67.6	66.8	68.1
Scotland	548	38.0	35.0	20.8	4.7	1.5	38.0	36.2	39.8
Singapore	716	74.8	11.4	13.1	0.5	0.2	74.8	74.8	74.9
Slovak Republic	707	38.5	37.6	15.3	8.5	0.2	38.5	37.0	39.9
Slovenia	622	45.2	29.6	20.9	3.1	1.3	45.2	42.6	47.7
Sweden	670	46.5	28.4	16.8	6.9	1.4	46.5	40.8	52.0
Tunisia	590	15.2	19.0	29.3	28.7	7.8	15.2	16.6	13.9
Ukraine	620	53.3	15.4	14.8	15.8	0.6	53.3	51.3	55.2
United States	1121	39.6	30.1	25.8	3.9	0.6	39.6	38.5	40.8
Yemen	837	8.2	3.7	28.5	56.0	3.7	8.2	10.5	6.3
-----									
International Avg.	638	40.1	22.5	20.9	14.6	1.8	40.1	38.9	41.4
-----									
Alberta, Canada	584	27.2	31.2	36.9	4.1	0.6	27.2	17.7	35.9
British Columbia, Canada	581	34.6	28.3	28.5	8.1	0.5	34.6	36.4	32.9
Dubai, UAE	442	27.5	22.0	36.3	13.8	0.5	27.5	28.7	26.5
Massachusetts, US	254	57.6	27.6	12.0	2.1	0.7	57.6	49.4	66.1
Minnesota, US	263	52.9	29.1	15.0	2.3	0.7	52.9	52.5	53.2
Ontario, Canada	490	31.3	34.4	30.2	3.3	0.9	31.3	24.2	37.3
Quebec, Canada	548	56.9	28.2	11.1	3.3	0.5	56.9	56.7	57.1
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041069 - M04\_03)  
 Label: Fraction equal to 2/3  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	19.6	9.7	6.3	19.6	49.0	8.7	6.6	18.9	20.3
Armenia	580	54.3	3.8	11.1	54.3	23.2	6.1	1.6	54.4	54.1
Australia	600	20.6	20.2	2.2	20.6	53.5	2.6	0.9	18.0	23.2
Austria	694	9.1	11.4	3.4	9.1	66.0	10.0	0.1	7.7	10.3
Chinese Taipei	587	46.5	16.8	2.4	46.5	33.1	1.2	0.0	45.2	47.8
Colombia	682	4.6	3.3	3.3	4.6	72.5	6.7	9.7	2.1	6.9
Czech Republic	605	6.7	7.1	3.8	6.7	60.9	20.4	1.2	8.6	5.0
Denmark	493	21.7	17.5	3.3	21.7	51.1	5.4	1.0	22.3	21.0
El Salvador	594	4.3	6.3	5.2	4.3	72.5	6.3	5.4	5.0	3.7
England	624	46.6	19.7	3.3	46.6	28.1	2.2	0.2	48.5	44.7
Georgia	587	23.5	8.6	9.9	23.5	50.3	4.8	2.8	23.5	23.6
Germany	735	7.9	8.5	1.2	7.9	70.2	11.2	1.0	6.9	8.9
Hong Kong SAR	545	76.6	8.9	6.4	76.6	7.4	0.4	0.3	76.6	76.6
Hungary	579	21.6	15.3	3.7	21.6	53.0	4.1	2.3	19.8	23.5
Iran, Islamic Rep. of	552	15.8	6.8	6.3	15.8	59.9	8.2	3.0	18.8	13.1
Italy	636	25.4	12.0	2.5	25.4	56.8	1.5	1.8	24.8	26.0
Japan	635	19.6	27.1	3.4	19.6	47.2	2.5	0.2	15.2	23.9
Kazakhstan	570	52.5	7.8	8.5	52.5	30.4	0.6	0.1	55.0	49.9
Kuwait	546	9.7	18.6	10.5	9.7	50.3	8.3	2.6	10.4	9.0
Latvia	548	20.4	8.5	3.4	20.4	65.4	1.8	0.3	21.9	19.1
Lithuania	574	17.1	11.3	3.0	17.1	61.9	6.1	0.5	17.8	16.5
Morocco	516	16.2	7.4	8.9	16.2	45.6	15.6	6.3	10.5	21.3
Netherlands	481	55.0	11.0	2.0	55.0	31.0	0.8	0.3	52.8	56.9
New Zealand	697	21.0	15.0	3.3	21.0	56.9	2.6	1.3	22.0	20.0
Norway	589	8.6	12.7	2.1	8.6	70.8	2.5	3.3	8.7	8.5
Qatar	1007	8.7	15.7	10.1	8.7	56.8	7.0	1.8	10.5	6.7
Russian Federation	639	32.6	6.7	5.5	32.6	47.5	6.8	0.9	35.2	30.6
Scotland	548	12.5	12.9	2.2	12.5	65.7	5.1	1.6	11.6	13.3
Singapore	716	84.2	5.3	4.8	84.2	5.3	0.2	0.2	82.9	85.4
Slovak Republic	707	13.1	7.6	1.7	13.1	69.2	8.1	0.2	13.9	12.5
Slovenia	622	4.0	8.1	1.4	4.0	79.4	5.6	1.5	2.6	5.3
Sweden	670	10.3	10.5	2.1	10.3	64.4	11.1	1.5	8.5	12.0
Tunisia	590	11.3	3.0	10.2	11.3	51.5	15.6	8.4	8.9	13.4
Ukraine	620	19.4	9.4	4.4	19.4	59.2	6.9	0.7	18.4	20.2
United States	1121	45.1	20.8	3.2	45.1	28.6	1.7	0.6	45.0	45.3
Yemen	837	18.9	6.8	17.8	18.9	42.4	10.2	3.8	17.4	20.2
International Avg.	636	24.6	11.2	5.1	24.6	51.0	6.1	2.1	24.2	25.0
Alberta, Canada	584	12.4	17.5	1.1	12.4	65.3	3.1	0.6	11.5	13.2
British Columbia, Canada	581	17.3	14.2	2.7	17.3	59.8	5.5	0.5	15.6	19.0
Dubai, UAE	442	23.9	15.3	6.1	23.9	49.4	4.9	0.5	19.7	27.4
Massachusetts, US	254	60.5	17.6	3.1	60.5	14.5	3.6	0.7	52.2	69.0
Minnesota, US	263	46.7	25.7	5.3	46.7	21.1	0.5	0.7	50.7	42.5
Ontario, Canada	490	15.4	18.1	1.6	15.4	61.3	2.7	0.9	17.5	13.6
Quebec, Canada	548	29.8	23.5	3.6	29.8	39.5	2.5	1.1	28.6	31.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041076 - M04\_04)  
 Label: Fraction of money Joe spent  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	601	31.3	2.6	33.9	24.3	7.9	31.3	33.6	29.2
Armenia	582	68.0	1.6	15.0	13.8	1.6	68.0	65.3	70.8
Australia	600	51.1	7.2	34.2	6.1	1.3	51.1	47.8	54.4
Austria	694	27.6	8.0	30.4	33.9	0.1	27.6	24.7	30.1
Chinese Taipei	587	92.0	0.2	6.9	1.0	0.0	92.0	92.1	91.9
Colombia	683	18.7	8.5	46.0	14.4	12.3	18.7	14.6	22.3
Czech Republic	608	7.9	2.9	53.2	34.9	1.2	7.9	9.2	6.7
Denmark	493	38.5	12.1	34.2	14.1	1.0	38.5	31.4	46.2
El Salvador	594	11.2	6.6	61.1	15.4	5.7	11.2	11.5	11.0
England	624	53.1	17.1	24.4	5.2	0.2	53.1	45.8	60.7
Georgia	587	26.8	14.8	25.3	30.2	2.8	26.8	27.1	26.5
Germany	735	22.0	14.7	33.3	29.0	1.0	22.0	17.7	26.1
Hong Kong SAR	545	88.3	0.9	10.3	0.3	0.3	88.3	90.9	85.9
Hungary	579	37.4	14.1	32.4	13.6	2.5	37.4	34.8	39.9
Iran, Islamic Rep. of	552	16.8	5.8	46.1	27.8	3.4	16.8	17.9	15.9
Italy	638	51.5	10.4	21.0	15.3	1.8	51.5	47.2	55.6
Japan	635	69.6	8.4	18.1	3.6	0.4	69.6	67.8	71.4
Kazakhstan	570	51.2	6.5	34.7	7.5	0.1	51.2	56.1	46.0
Kuwait	546	14.4	7.6	45.3	29.8	2.9	14.4	19.6	9.0
Latvia	548	39.3	9.2	37.6	13.6	0.3	39.3	39.3	39.2
Lithuania	574	26.2	5.9	46.6	20.7	0.6	26.2	26.6	25.9
Morocco	538	8.5	5.6	36.4	42.5	7.1	8.5	8.0	9.0
Netherlands	481	55.4	11.8	29.6	2.4	0.7	55.4	48.8	61.5
New Zealand	697	42.3	11.9	35.8	8.7	1.3	42.3	43.5	41.0
Norway	589	29.2	7.8	47.3	12.0	3.7	29.2	28.3	30.1
Qatar	1007	8.3	5.1	57.4	27.2	2.0	8.3	8.6	7.9
Russian Federation	639	43.2	5.3	37.5	13.0	0.9	43.2	47.3	40.0
Scotland	548	38.2	7.2	38.2	14.7	1.6	38.2	33.4	42.9
Singapore	716	82.0	1.0	16.9	0.0	0.2	82.0	80.0	83.7
Slovak Republic	707	20.1	3.8	55.2	20.8	0.2	20.1	18.1	21.9
Slovenia	622	26.3	9.4	46.8	15.5	1.9	26.3	23.5	29.1
Sweden	670	18.8	1.1	57.0	21.2	1.9	18.8	12.5	24.8
Tunisia	590	5.4	2.4	54.1	29.3	8.9	5.4	4.4	6.2
Ukraine	620	15.4	13.9	46.4	23.1	1.1	15.4	17.1	13.8
United States	1121	68.6	5.3	23.8	1.6	0.6	68.6	65.2	72.7
Yemen	836	11.3	1.4	50.8	32.2	4.2	11.3	11.4	11.2
International Avg.	638	36.6	7.2	36.8	17.2	2.3	36.6	35.3	37.8
Alberta, Canada	584	50.6	7.2	37.8	3.7	0.6	50.6	49.2	51.9
British Columbia, Canada	581	49.4	7.2	33.3	8.9	1.1	49.4	46.9	51.8
Dubai, UAE	442	35.9	10.5	41.8	11.3	0.5	35.9	35.2	36.6
Massachusetts, US	254	75.8	3.5	18.4	1.6	0.7	75.8	71.2	80.6
Minnesota, US	263	67.5	9.2	21.2	1.4	0.7	67.5	70.2	64.6
Ontario, Canada	490	51.6	8.2	31.7	7.5	0.9	51.6	45.6	56.8
Quebec, Canada	548	43.3	12.4	31.8	11.1	1.3	43.3	41.1	45.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041281 - M04\_05)  
 Label: Number sentence for pencils in a box  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	512	27.4	19.4	10.0	21.5	27.4	12.1	9.5	25.0	29.7
Armenia	565	59.5	10.0	4.0	8.6	59.5	16.0	1.8	62.1	56.9
Australia	598	59.8	11.4	4.7	17.5	59.8	5.2	1.4	59.3	60.2
Austria	694	72.7	8.1	1.9	12.9	72.7	4.2	0.2	70.1	74.9
Chinese Taipei	587	92.6	0.8	1.2	3.4	92.6	2.0	0.0	94.4	90.7
Colombia	683	21.2	21.6	11.4	11.2	21.2	20.7	13.8	18.8	23.3
Czech Republic	608	70.5	9.7	2.3	8.5	70.5	7.4	1.6	69.0	71.8
Denmark	492	57.9	11.4	3.8	10.4	57.9	15.6	1.0	58.7	56.9
El Salvador	594	15.7	29.1	12.0	14.8	15.7	20.7	7.7	14.4	16.9
England	624	69.3	9.8	3.3	12.6	69.3	4.8	0.3	69.3	69.4
Georgia	587	51.7	11.8	4.6	16.3	51.7	10.5	5.3	58.8	45.8
Germany	735	77.3	8.4	2.0	8.2	77.3	2.7	1.4	74.9	79.5
Hong Kong SAR	545	83.9	5.3	0.5	8.3	83.9	1.7	0.3	85.5	82.4
Hungary	579	61.7	14.0	7.1	9.1	61.7	5.5	2.7	60.3	63.0
Iran, Islamic Rep. of	552	43.3	17.7	6.0	18.0	43.3	10.8	4.2	50.0	37.4
Italy	637	56.1	11.6	2.4	20.6	56.1	7.2	2.2	56.1	56.1
Japan	635	76.7	6.8	2.0	11.4	76.7	2.6	0.5	78.8	74.5
Kazakhstan	570	82.1	5.5	2.6	9.1	82.1	0.4	0.3	85.0	79.1
Kuwait	546	25.9	20.5	8.3	18.1	25.9	23.3	3.8	30.6	21.1
Latvia	548	71.5	7.9	2.3	12.4	71.5	5.3	0.5	75.0	68.5
Lithuania	574	78.6	6.4	1.4	7.4	78.6	5.7	0.6	79.0	78.2
Morocco	512	29.6	12.6	13.0	20.7	29.6	15.3	9.0	33.0	26.3
Netherlands	481	77.1	6.4	2.0	11.4	77.1	2.4	0.7	73.1	80.8
New Zealand	697	54.0	17.8	4.8	15.2	54.0	6.9	1.3	49.8	58.3
Norway	589	56.9	16.3	5.7	9.6	56.9	7.8	3.8	55.3	58.4
Qatar	1007	23.3	28.1	10.3	13.7	23.3	22.2	2.4	27.6	18.6
Russian Federation	639	87.0	3.9	1.3	4.4	87.0	2.5	0.9	90.2	84.5
Scotland	548	55.8	14.1	2.4	17.2	55.8	8.5	1.9	56.5	55.2
Singapore	716	85.7	2.2	1.3	9.5	85.7	1.1	0.2	85.8	85.7
Slovak Republic	707	69.0	12.0	4.8	9.2	69.0	4.7	0.2	69.5	68.6
Slovenia	622	70.0	8.7	2.8	11.2	70.0	5.2	2.2	67.0	72.9
Sweden	670	62.2	9.4	5.6	14.7	62.2	5.2	2.8	61.3	63.1
Tunisia	590	31.3	8.4	6.1	12.6	31.3	31.7	9.9	36.2	26.9
Ukraine	620	67.4	11.3	2.9	13.3	67.4	3.3	1.7	69.7	65.3
United States	1121	66.1	7.9	4.6	18.6	66.1	2.1	0.7	66.8	65.2
Yemen	836	15.0	13.5	13.1	16.8	15.0	36.0	5.7	17.1	13.4
International Avg.	634	58.5	11.7	4.8	12.7	58.5	9.4	2.8	59.3	57.8
Alberta, Canada	584	54.5	10.3	6.0	21.9	54.5	6.5	0.9	52.9	56.0
British Columbia, Canada	581	49.6	12.4	5.2	23.2	49.6	8.3	1.4	50.4	48.9
Dubai, UAE	442	48.4	13.2	6.6	17.2	48.4	13.9	0.7	49.3	47.6
Massachusetts, US	254	75.9	2.6	1.4	14.8	75.9	4.2	1.1	76.9	74.9
Minnesota, US	263	72.2	6.5	4.4	14.7	72.2	1.6	0.7	71.5	72.8
Ontario, Canada	490	49.4	16.7	6.8	20.7	49.4	4.8	1.6	52.1	47.2
Quebec, Canada	548	65.2	6.4	3.2	16.4	65.2	7.4	1.4	67.9	62.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041164 - M04\_06)

Label: Line of symmetry

Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	516	45.6	45.6	12.9	10.7	6.1	14.1	10.5	45.4	45.7
Armenia	576	65.6	65.6	10.4	6.5	4.5	11.1	1.8	65.0	66.3
Australia	600	79.3	79.3	6.7	5.5	2.0	4.8	1.7	82.5	76.2
Austria	694	65.3	65.3	13.5	6.0	5.2	9.7	0.3	68.4	62.6
Chinese Taipei	587	73.9	73.9	8.6	5.9	3.6	8.1	0.0	76.8	70.8
Colombia	683	34.5	34.5	20.0	14.5	8.2	7.2	15.6	36.4	32.7
Czech Republic	608	64.6	64.6	14.8	7.0	4.0	7.8	1.7	65.4	64.0
Denmark	493	85.1	85.1	2.1	5.5	1.8	4.1	1.4	86.6	83.4
El Salvador	594	35.5	35.5	19.2	18.2	11.7	7.3	8.1	38.8	32.5
England	624	91.8	91.8	2.0	2.2	0.7	3.1	0.3	91.6	92.0
Georgia	587	50.9	50.9	10.5	13.7	11.6	8.0	5.3	52.8	49.3
Germany	735	85.4	85.4	2.4	3.3	1.0	6.3	1.6	84.1	86.7
Hong Kong SAR	545	97.4	97.4	0.2	0.0	0.4	1.7	0.3	98.8	96.1
Hungary	579	74.3	74.3	7.1	5.1	3.3	7.4	2.8	75.0	73.6
Iran, Islamic Rep. of	552	71.8	71.8	4.6	7.6	2.9	8.2	4.9	74.6	69.4
Italy	622	70.7	70.7	10.6	9.9	3.4	2.8	2.7	71.8	69.6
Japan	635	73.3	73.3	9.1	10.0	4.9	2.0	0.7	71.8	74.8
Kazakhstan	570	79.1	79.1	7.0	6.9	6.5	0.2	0.3	80.8	77.3
Kuwait	546	27.8	27.8	20.4	18.6	10.1	18.2	4.8	34.1	21.4
Latvia	548	69.6	69.6	8.2	10.4	6.0	5.1	0.6	75.4	64.6
Lithuania	574	77.9	77.9	7.9	4.1	1.5	7.9	0.7	80.7	75.4
Morocco	455	60.2	60.2	6.5	10.6	3.0	9.3	10.5	60.4	59.7
Netherlands	481	64.2	64.2	14.0	12.2	5.3	3.5	0.7	62.7	65.6
New Zealand	697	72.4	72.4	8.9	7.3	5.2	4.9	1.3	77.9	66.7
Norway	589	58.7	58.7	12.1	8.4	8.9	7.1	4.7	62.9	54.5
Qatar	1006	33.3	33.3	16.6	15.7	11.1	20.5	2.7	40.6	25.5
Russian Federation	639	73.6	73.6	10.1	7.2	4.5	3.7	0.9	76.6	71.2
Scotland	548	85.7	85.7	2.8	1.7	1.3	6.5	1.9	88.4	83.2
Singapore	716	96.9	96.9	0.9	0.8	0.4	1.0	0.2	96.4	97.3
Slovak Republic	707	52.0	52.0	19.4	13.5	7.2	7.5	0.4	55.0	49.2
Slovenia	622	92.0	92.0	1.3	1.0	0.0	3.0	2.7	93.4	90.6
Sweden	670	49.5	49.5	14.5	12.5	10.8	9.7	3.0	49.9	49.1
Tunisia	591	24.2	24.2	9.9	10.2	8.1	36.7	10.7	26.2	22.5
Ukraine	620	48.5	48.5	19.4	18.0	5.3	6.7	2.1	50.0	47.0
United States	1121	89.8	89.8	3.4	3.3	1.2	1.4	0.8	91.3	88.1
Yemen	837	20.9	20.9	19.3	14.0	14.2	24.8	6.8	20.3	21.4
International Avg.	632	65.0	65.0	9.9	8.6	5.2	8.1	3.2	66.9	63.2
Alberta, Canada	584	77.0	77.0	8.8	6.0	2.9	4.1	1.2	80.6	73.6
British Columbia, Canada	581	73.2	73.2	7.9	7.8	5.8	3.9	1.5	74.6	71.9
Dubai, UAE	442	59.2	59.2	12.0	10.3	5.6	12.0	0.8	63.5	55.7
Massachusetts, US	254	94.2	94.2	0.4	0.4	0.9	2.5	1.6	94.2	94.3
Minnesota, US	263	97.4	97.4	1.2	0.1	0.5	0.0	0.7	99.0	95.8
Ontario, Canada	490	82.3	82.3	3.7	4.4	2.9	5.0	1.7	85.3	79.8
Quebec, Canada	548	77.5	77.5	7.1	4.4	3.2	5.9	1.9	79.0	75.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041146 - M04\_07)  
 Label: Draw other 2 sides of a rectangle  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	24.1	53.9	12.2	9.8	24.1	23.7	24.6
Armenia	586	58.5	28.9	10.6	2.0	58.5	56.1	60.9
Australia	600	67.8	28.6	1.9	1.7	67.8	64.3	71.1
Austria	694	59.7	35.3	4.7	0.3	59.7	57.8	61.3
Chinese Taipei	587	76.8	21.0	2.3	0.0	76.8	79.1	74.3
Colombia	683	27.3	46.3	10.2	16.2	27.3	24.9	29.5
Czech Republic	608	72.3	23.0	3.0	1.7	72.3	71.2	73.2
Denmark	493	66.1	27.9	3.9	2.0	66.1	61.7	70.9
El Salvador	594	12.7	64.6	13.6	9.1	12.7	11.5	13.8
England	624	70.2	27.9	1.6	0.3	70.2	68.7	71.9
Georgia	587	46.4	30.3	18.0	5.4	46.4	46.5	46.3
Germany	735	62.1	32.1	3.8	2.1	62.1	58.3	65.6
Hong Kong SAR	545	89.8	9.4	0.5	0.3	89.8	87.5	91.9
Hungary	579	61.5	31.4	3.3	3.8	61.5	64.9	58.2
Iran, Islamic Rep. of	552	51.9	36.2	5.4	6.5	51.9	54.2	49.8
Italy	637	53.6	37.4	6.0	3.0	53.6	49.2	57.8
Japan	635	78.4	19.6	1.0	1.0	78.4	82.0	74.9
Kazakhstan	570	64.6	33.2	1.9	0.3	64.6	63.9	65.4
Kuwait	546	24.5	47.0	22.6	6.0	24.5	29.5	19.3
Latvia	.	.	.	.	.	.	.	.
Lithuania	574	57.2	39.0	2.8	1.0	57.2	55.8	58.5
Morocco	538	39.9	35.4	15.2	9.4	39.9	37.3	42.3
Netherlands	481	60.1	39.0	0.1	0.7	60.1	55.5	64.4
New Zealand	697	61.2	35.0	2.5	1.3	61.2	62.6	59.7
Norway	589	44.7	45.8	4.5	4.9	44.7	42.1	47.4
Qatar	1007	16.1	61.9	18.6	3.4	16.1	18.3	13.8
Russian Federation	639	74.8	20.0	3.5	1.7	74.8	75.1	74.6
Scotland	548	54.7	40.0	3.2	2.2	54.7	52.5	56.8
Singapore	716	68.7	30.8	0.1	0.4	68.7	68.6	68.8
Slovak Republic	707	67.3	26.5	5.5	0.6	67.3	65.3	69.3
Slovenia	622	57.0	37.9	2.2	2.8	57.0	58.2	55.9
Sweden	670	66.2	27.7	2.1	4.0	66.2	67.0	65.5
Tunisia	591	31.1	48.4	9.2	11.4	31.1	31.8	30.5
Ukraine	620	50.4	43.4	4.0	2.1	50.4	46.8	53.7
United States	1121	54.9	42.9	1.2	1.0	54.9	55.6	54.1
Yemen	836	5.2	49.9	37.4	7.6	5.2	5.9	4.6
International Avg.	640	53.7	35.9	6.8	3.6	53.7	52.9	54.3
Alberta, Canada	584	50.3	45.1	3.0	1.6	50.3	51.0	49.7
British Columbia, Canada	581	58.3	39.6	0.7	1.5	58.3	59.9	56.7
Dubai, UAE	442	36.6	54.3	8.1	1.1	36.6	42.5	31.6
Massachusetts, US	254	67.4	29.1	1.2	2.3	67.4	63.7	71.3
Minnesota, US	263	64.3	33.7	1.3	0.7	64.3	61.4	67.4
Ontario, Canada	490	66.6	28.9	2.2	2.3	66.6	68.0	65.4
Quebec, Canada	548	70.7	24.9	1.6	2.8	70.7	68.2	73.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041152 - M04\_08)  
 Label: Area of the fence to be painted  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	33.2	16.4	24.7	33.2	7.9	6.7	11.1	37.5	29.1
Armenia	584	66.4	6.3	12.4	66.4	4.0	8.7	2.3	69.7	63.0
Australia	600	27.6	13.8	41.6	27.6	12.4	2.9	1.7	25.1	30.0
Austria	694	53.7	5.8	29.6	53.7	6.8	3.7	0.3	50.3	56.8
Chinese Taipei	587	81.5	0.9	10.0	81.5	6.9	0.7	0.0	85.6	77.2
Colombia	683	11.7	25.5	35.1	11.7	4.9	5.1	17.8	12.9	10.6
Czech Republic	608	23.5	10.7	50.3	23.5	8.7	5.0	1.7	25.0	22.2
Denmark	492	39.6	5.0	42.5	39.6	8.1	2.8	2.0	41.7	37.3
El Salvador	594	11.1	38.0	29.0	11.1	6.7	5.7	9.6	12.9	9.4
England	624	43.5	6.1	30.6	43.5	17.8	1.6	0.3	45.7	41.3
Georgia	587	56.4	4.4	21.4	56.4	8.3	3.7	5.8	59.0	54.1
Germany	735	36.6	9.3	38.9	36.6	9.3	3.3	2.6	36.3	36.8
Hong Kong SAR	545	92.0	0.0	4.1	92.0	3.0	0.6	0.3	94.1	90.1
Hungary	579	32.2	8.4	40.8	32.2	8.4	5.2	5.0	35.2	29.3
Iran, Islamic Rep. of	552	26.7	17.6	31.3	26.7	12.4	5.5	6.5	32.8	21.4
Italy	637	30.0	9.6	41.7	30.0	10.6	5.0	3.1	29.3	30.6
Japan	635	76.0	6.1	14.1	76.0	0.8	1.4	1.5	77.4	74.6
Kazakhstan	570	87.3	2.1	7.8	87.3	2.4	0.1	0.3	90.7	83.8
Kuwait	546	14.8	20.2	41.8	14.8	10.0	6.4	6.8	17.1	12.4
Latvia	548	64.5	7.7	16.6	64.5	6.8	3.4	1.0	69.1	60.5
Lithuania	574	74.1	4.2	12.0	74.1	6.6	2.1	1.1	80.5	68.2
Morocco	525	27.8	18.3	31.5	27.8	6.0	6.1	10.4	26.5	28.0
Netherlands	481	43.9	10.6	36.0	43.9	8.3	0.6	0.7	37.2	49.9
New Zealand	697	15.0	23.9	50.6	15.0	6.7	2.5	1.4	16.5	13.3
Norway	588	27.0	8.8	45.4	27.0	9.4	4.1	5.2	31.6	22.5
Qatar	1006	13.0	29.8	36.0	13.0	10.4	7.1	3.6	12.8	13.2
Russian Federation	639	80.1	1.3	10.2	80.1	4.7	2.0	1.8	85.4	76.1
Scotland	548	17.3	10.4	61.0	17.3	4.2	4.9	2.2	19.6	15.2
Singapore	716	83.6	2.5	7.3	83.6	5.9	0.2	0.4	83.7	83.6
Slovak Republic	706	32.4	11.9	35.2	32.4	15.9	3.1	1.5	35.6	29.4
Slovenia	622	22.9	15.3	49.0	22.9	5.6	4.1	3.1	24.5	21.4
Sweden	670	20.6	8.5	43.3	20.6	18.6	4.9	4.2	19.9	21.2
Tunisia	591	25.3	16.7	23.6	25.3	8.1	14.5	11.8	25.6	25.0
Ukraine	620	65.6	7.4	16.8	65.6	5.3	2.6	2.3	66.6	64.6
United States	1121	47.8	3.6	28.3	47.8	18.3	1.0	1.0	51.2	43.7
Yemen	837	20.4	17.0	31.9	20.4	13.3	9.4	8.0	20.7	20.3
International Avg.	636	42.4	11.2	30.1	42.4	8.4	4.1	3.8	44.0	40.7
Alberta, Canada	584	16.4	11.8	53.5	16.4	14.2	2.3	1.8	18.2	14.7
British Columbia, Canada	581	19.4	15.5	49.8	19.4	10.5	3.4	1.5	20.3	18.6
Dubai, UAE	442	19.1	16.7	49.5	19.1	9.8	3.4	1.4	19.9	18.5
Massachusetts, US	254	53.4	3.3	26.6	53.4	11.3	2.8	2.6	55.8	51.0
Minnesota, US	263	57.8	1.9	19.8	57.8	19.4	0.4	0.7	60.8	54.6
Ontario, Canada	490	19.2	11.4	50.7	19.2	14.1	2.2	2.3	18.5	19.9
Quebec, Canada	548	27.2	10.8	38.8	27.2	16.7	3.9	2.8	28.3	25.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041258A - M04\_09A)  
 Label: Similarity in the two given shapes  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	NOT		
								V1 %Right	2.BOY %Right	
Algeria	599	12.0	5.6	0.0	42.1	28.6	11.7	12.0	11.7	12.3
Armenia	584	49.7	0.6	2.1	11.1	34.0	2.4	49.7	47.6	51.9
Australia	600	68.1	3.3	0.6	12.2	14.0	1.7	68.1	72.6	63.7
Austria	694	40.8	0.4	0.8	29.8	27.8	0.4	40.8	41.4	40.2
Chinese Taipei	587	70.8	0.4	1.3	18.8	8.6	0.0	70.8	71.1	70.5
Colombia	683	16.8	0.6	0.7	36.4	26.6	18.9	16.8	18.2	15.5
Czech Republic	608	48.8	1.1	0.0	17.8	30.4	1.9	48.8	47.3	50.1
Denmark	493	64.9	0.6	1.4	18.6	11.7	2.8	64.9	66.5	63.2
El Salvador	594	9.5	0.8	0.1	34.6	44.5	10.5	9.5	11.0	8.2
England	624	72.7	1.3	0.6	15.6	9.2	0.6	72.7	75.7	69.6
Georgia	587	30.2	0.5	0.0	13.4	50.0	6.0	30.2	29.0	31.2
Germany	735	65.3	1.1	0.4	17.3	13.0	2.9	65.3	66.2	64.5
Hong Kong SAR	545	83.0	0.0	0.2	12.3	4.2	0.3	83.0	86.7	79.6
Hungary	579	62.1	0.4	1.2	17.3	13.2	5.8	62.1	65.3	59.0
Iran, Islamic Rep. of	552	32.2	0.2	0.6	38.6	20.3	8.1	32.2	38.8	26.5
Italy	638	52.1	0.4	0.4	20.0	23.8	3.3	52.1	53.7	50.7
Japan	635	48.9	0.5	0.3	41.4	7.1	1.8	48.9	49.8	48.1
Kazakhstan	570	72.0	0.2	0.3	16.3	10.9	0.3	72.0	75.8	68.0
Kuwait	546	15.7	1.7	1.1	31.7	42.4	7.3	15.7	17.3	14.2
Latvia	548	77.8	0.6	0.2	10.0	9.3	2.1	77.8	83.9	72.5
Lithuania	574	57.2	0.0	0.2	30.8	10.3	1.6	57.2	62.2	52.6
Morocco	538	3.9	1.4	0.4	31.7	50.5	12.1	3.9	5.1	2.9
Netherlands	481	54.0	3.0	1.0	27.4	13.8	0.7	54.0	52.5	55.4
New Zealand	697	57.3	3.9	1.6	15.1	20.7	1.5	57.3	61.2	53.3
Norway	589	52.1	1.0	0.5	20.2	20.5	5.7	52.1	57.4	47.0
Qatar	1007	7.7	1.2	0.4	45.3	41.2	4.2	7.7	10.0	5.1
Russian Federation	639	68.8	0.6	0.0	11.9	16.4	2.3	68.8	74.7	64.3
Scotland	548	60.7	2.0	0.8	14.5	19.0	3.0	60.7	61.2	60.2
Singapore	716	79.7	2.5	1.3	12.2	4.0	0.4	79.7	82.6	77.1
Slovak Republic	707	67.4	0.4	0.8	17.3	12.2	1.9	67.4	72.6	62.4
Slovenia	622	63.4	4.4	1.2	15.1	12.1	3.8	63.4	67.0	59.8
Sweden	670	65.8	1.6	0.4	15.2	11.9	5.2	65.8	66.4	65.2
Tunisia	591	17.2	1.6	0.0	44.6	23.5	13.1	17.2	18.0	16.4
Ukraine	620	42.4	2.0	0.1	25.8	27.2	2.4	42.4	44.6	40.4
United States	1121	70.3	5.5	0.3	10.3	12.6	1.1	70.3	71.1	69.2
Yemen	837	6.7	0.0	0.3	39.2	45.5	8.2	6.7	7.1	6.3
International Avg.	638	49.1	1.4	0.6	23.1	21.4	4.3	49.1	51.2	47.1
Alberta, Canada	584	60.6	2.3	2.4	18.8	13.7	2.2	60.6	63.6	57.9
British Columbia, Canada	581	65.0	2.4	1.4	16.4	12.3	2.5	65.0	74.2	56.3
Dubai, UAE	442	39.7	1.5	1.0	26.5	29.7	1.5	39.7	44.1	36.1
Massachusetts, US	254	81.9	2.5	0.0	6.5	5.6	3.5	81.9	78.0	85.9
Minnesota, US	263	77.6	1.3	1.1	9.1	9.7	1.1	77.6	83.2	71.6
Ontario, Canada	490	71.7	4.8	0.8	7.2	13.1	2.4	71.7	76.3	67.8
Quebec, Canada	548	66.5	2.0	0.4	11.9	16.3	2.9	66.5	65.8	67.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041258B - M04\_09B)  
 Label: Difference in the two given shapes  
 Type: CR Key: -

COUNTRY	N	10	11	12	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	599	9.3	1.1	3.1	4.2	38.0	31.8	12.6	13.5	14.7	12.3
Armenia	584	22.0	6.0	9.7	3.0	18.0	38.6	2.7	37.7	39.5	35.8
Australia	600	8.1	3.0	19.8	8.2	51.9	7.0	2.0	30.9	34.7	27.1
Austria	694	7.0	1.3	22.7	12.2	34.6	21.2	1.0	31.0	30.1	31.8
Chinese Taipei	587	44.6	4.6	17.9	10.8	13.7	8.4	0.0	67.1	67.0	67.2
Colombia	683	1.1	0.2	9.8	6.2	45.3	17.8	19.7	11.1	10.9	11.3
Czech Republic	608	15.9	3.8	15.4	9.3	29.3	23.8	2.5	35.1	36.9	33.6
Denmark	493	12.9	4.3	28.4	8.1	34.3	8.5	3.4	45.6	48.5	42.5
El Salvador	594	0.6	0.8	6.5	5.8	42.7	32.0	11.5	7.9	10.8	5.3
England	624	23.0	10.3	19.1	11.0	28.9	6.8	0.8	52.4	52.3	52.6
Georgia	587	9.9	1.4	1.5	8.1	21.7	50.3	7.1	12.7	12.8	12.7
Germany	735	6.2	4.7	27.7	19.0	25.7	13.4	3.3	38.6	42.7	34.8
Hong Kong SAR	545	73.4	3.4	5.0	3.7	10.9	3.2	0.3	81.9	85.2	78.9
Hungary	579	17.9	2.5	18.4	15.2	26.2	14.1	5.9	38.7	37.6	39.8
Iran, Islamic Rep. of	552	28.1	5.8	3.9	3.3	23.2	26.7	9.0	37.8	42.7	33.4
Italy	638	11.6	16.2	14.4	11.8	23.2	19.1	3.7	42.2	44.0	40.4
Japan	635	26.3	13.6	15.5	16.1	19.7	6.1	2.6	55.4	59.4	51.4
Kazakhstan	570	28.5	2.9	16.1	3.4	38.6	10.2	0.3	47.5	51.1	43.7
Kuwait	546	1.1	0.1	7.6	3.8	45.8	33.7	7.9	8.8	10.8	6.7
Latvia	548	14.7	4.0	33.8	9.4	27.8	7.2	3.2	52.5	54.5	50.8
Lithuania	574	10.9	2.0	29.1	5.9	38.9	11.2	2.1	41.9	39.6	44.0
Morocco	538	9.2	1.0	0.8	1.1	27.0	48.2	12.8	11.0	13.7	8.5
Netherlands	481	8.3	0.7	27.4	19.0	38.4	5.0	1.2	36.4	38.4	34.5
New Zealand	697	5.7	3.5	26.5	19.2	32.5	10.5	2.1	35.7	40.0	31.4
Norway	589	16.2	2.6	24.0	1.7	37.8	11.3	6.4	42.8	49.6	36.0
Qatar	1007	1.1	0.2	3.5	2.1	54.2	34.1	4.8	4.8	6.3	3.1
Russian Federation	639	20.9	5.0	25.5	7.7	21.5	16.7	2.7	51.4	57.0	47.1
Scotland	548	5.9	6.3	21.3	17.9	33.8	11.3	3.6	33.5	36.4	30.6
Singapore	716	44.4	7.3	15.2	14.2	16.3	2.1	0.4	66.9	70.7	63.6
Slovak Republic	707	4.9	0.6	35.0	15.8	28.9	12.9	1.9	40.5	41.3	39.8
Slovenia	622	0.5	1.9	42.5	20.2	24.9	5.9	4.1	45.0	45.8	44.2
Sweden	670	7.3	3.6	32.4	10.6	28.1	12.4	5.7	43.2	43.4	43.0
Tunisia	591	6.3	0.7	5.2	1.3	46.7	26.0	13.8	12.2	11.9	12.4
Ukraine	620	1.9	2.2	17.6	9.9	40.2	25.4	2.8	21.7	24.7	18.9
United States	1121	8.3	5.3	36.9	20.4	23.6	4.3	1.3	50.4	50.9	49.8
Yemen	837	2.6	0.0	0.7	0.4	51.5	35.8	9.0	3.3	3.8	2.9
International Avg.	638	14.3	3.7	17.8	9.5	31.8	18.1	4.8	35.8	37.8	33.9
Alberta, Canada	584	4.3	4.3	31.3	16.7	34.3	6.8	2.4	39.8	46.7	33.5
British Columbia, Canada	581	4.8	3.2	29.5	20.1	32.1	7.5	2.9	37.5	40.0	35.1
Dubai, UAE	442	7.0	2.3	15.4	8.8	43.8	19.4	3.2	24.8	23.4	25.9
Massachusetts, US	254	24.2	8.0	31.5	15.4	13.4	3.3	4.3	63.7	61.8	65.6
Minnesota, US	263	14.9	5.9	38.6	18.8	18.6	1.9	1.2	59.4	66.3	52.0
Ontario, Canada	490	6.0	6.3	35.5	13.6	30.3	5.5	2.8	47.8	52.7	43.7
Quebec, Canada	548	15.5	3.9	29.4	13.8	22.9	10.5	4.2	48.7	51.2	46.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041131 - M04\_10)  
 Label: Estimate the height of the tree  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	564	17.9	29.3	20.6	17.9	15.6	3.1	13.6	19.6	16.2
Armenia	583	33.9	18.0	27.0	33.9	12.5	5.8	2.7	30.6	37.3
Australia	600	33.8	12.8	37.1	33.8	10.9	3.2	2.2	35.3	32.4
Austria	694	34.2	16.0	39.8	34.2	7.5	1.5	1.1	28.5	39.1
Chinese Taipei	587	35.0	17.1	41.2	35.0	6.5	0.2	0.0	32.5	37.6
Colombia	683	17.3	20.5	22.2	17.3	17.6	2.4	20.1	14.5	19.8
Czech Republic	608	33.6	14.0	41.3	33.6	6.9	1.3	2.9	30.8	35.9
Denmark	492	32.9	18.5	38.0	32.9	5.0	2.2	3.4	30.1	35.8
El Salvador	594	18.4	21.7	28.6	18.4	16.4	3.4	11.5	15.7	20.8
England	624	40.3	9.2	35.0	40.3	13.6	1.0	0.8	38.7	42.0
Georgia	586	21.8	20.7	35.9	21.8	13.2	1.4	7.1	19.9	23.3
Germany	735	35.7	10.2	42.3	35.7	7.0	1.2	3.6	31.6	39.6
Hong Kong SAR	545	45.3	11.3	38.5	45.3	4.7	0.0	0.3	42.1	48.2
Hungary	579	29.7	19.7	37.2	29.7	5.5	1.8	6.2	25.3	34.1
Iran, Islamic Rep. of	552	18.3	21.0	30.4	18.3	16.5	4.7	9.2	16.4	20.0
Italy	637	26.8	19.5	37.0	26.8	11.5	1.5	3.7	23.6	29.8
Japan	635	40.7	13.0	35.1	40.7	7.2	1.3	2.6	36.7	44.8
Kazakhstan	570	45.9	14.9	28.9	45.9	9.7	0.4	0.3	48.0	43.7
Kuwait	546	14.2	21.5	37.1	14.2	14.3	4.8	8.2	14.6	13.7
Latvia	548	40.6	13.7	35.0	40.6	6.8	0.7	3.2	31.0	48.9
Lithuania	574	36.5	16.5	36.4	36.5	6.5	2.0	2.1	31.1	41.4
Morocco	523	15.7	21.6	27.4	15.7	19.1	3.4	12.8	16.5	15.0
Netherlands	481	41.0	13.1	37.1	41.0	6.5	1.2	1.2	32.0	49.2
New Zealand	697	32.0	18.3	36.9	32.0	8.7	1.9	2.2	31.6	32.3
Norway	589	36.5	13.9	34.7	36.5	7.4	1.0	6.6	30.1	42.7
Qatar	1006	11.5	27.4	34.6	11.5	18.2	3.4	4.9	10.4	12.6
Russian Federation	639	37.0	20.3	34.2	37.0	5.1	0.6	2.7	33.8	39.6
Scotland	548	33.4	12.2	39.0	33.4	10.7	0.8	3.8	30.7	36.0
Singapore	716	37.8	9.5	41.8	37.8	9.9	0.6	0.4	37.0	38.5
Slovak Republic	707	29.3	14.2	41.7	29.3	11.5	1.2	2.0	29.0	29.7
Slovenia	622	32.6	18.6	36.7	32.6	7.4	0.5	4.1	28.1	37.0
Sweden	670	38.6	13.2	34.7	38.6	5.9	1.7	5.9	31.1	45.8
Tunisia	590	16.4	21.9	24.2	16.4	15.5	8.1	13.9	12.3	20.2
Ukraine	620	31.5	18.2	37.4	31.5	8.9	1.2	2.8	32.6	30.4
United States	1121	32.3	19.3	33.8	32.3	11.2	1.7	1.7	31.6	33.0
Yemen	837	21.3	20.3	17.4	21.3	26.1	5.8	9.1	15.3	26.0
International Avg.	636	30.5	17.3	34.3	30.5	10.8	2.1	5.0	27.7	33.1
Alberta, Canada	584	32.2	13.6	36.8	32.2	11.4	3.6	2.4	31.3	33.0
British Columbia, Canada	581	30.5	13.4	39.3	30.5	12.6	1.4	2.9	29.9	31.1
Dubai, UAE	442	26.1	16.6	34.4	26.1	16.7	3.1	3.2	19.3	31.7
Massachusetts, US	254	32.9	16.6	32.1	32.9	11.4	1.9	5.2	29.5	36.3
Minnesota, US	263	33.8	18.2	35.5	33.8	8.3	3.1	1.2	27.3	40.7
Ontario, Canada	490	31.9	15.7	34.9	31.9	13.2	1.5	2.8	31.5	32.3
Quebec, Canada	548	34.4	18.9	34.6	34.4	6.3	1.5	4.2	31.3	37.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041275 - M04\_11)  
 Label: Complete the bar graph  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
Algeria	598	8.3	8.6	40.2	29.1	13.8	16.9	8.3	8.3	8.3
Armenia	585	23.9	10.1	14.5	48.7	2.9	34.0	23.9	24.2	23.6
Australia	600	77.1	8.6	4.6	7.4	2.3	85.7	77.1	77.8	76.4
Austria	472	47.2	14.4	17.5	19.8	1.1	61.6	47.2	44.8	49.3
Chinese Taipei	587	79.8	10.1	7.1	3.1	0.0	89.8	79.8	79.0	80.6
Colombia	683	28.4	8.5	23.4	19.0	20.7	37.0	28.4	26.7	30.0
Czech Republic	607	40.6	12.3	20.1	23.8	3.3	52.9	40.6	37.7	43.1
Denmark	493	69.5	11.2	6.5	8.7	4.1	80.7	69.5	67.9	71.1
El Salvador	594	25.9	17.7	26.6	17.7	12.1	43.6	25.9	23.6	28.0
England	624	83.8	8.8	4.6	1.8	1.0	92.6	83.8	85.6	81.9
Georgia	585	25.3	6.5	19.1	42.0	7.1	31.8	25.3	26.8	24.0
Germany	735	63.4	9.3	12.0	11.0	4.2	72.7	63.4	57.1	69.3
Hong Kong SAR	545	90.0	7.7	2.0	0.1	0.3	97.6	90.0	90.8	89.3
Hungary	579	50.2	11.5	18.5	13.1	6.7	61.7	50.2	48.3	52.0
Iran, Islamic Rep. of	552	4.0	3.0	39.6	43.0	10.5	6.9	4.0	2.8	5.0
Italy	638	62.8	8.7	10.5	13.3	4.6	71.5	62.8	61.8	63.8
Japan	635	86.4	5.3	2.3	2.7	3.2	91.8	86.4	90.2	82.7
Kazakhstan	570	49.4	13.5	25.5	11.3	0.3	62.9	49.4	51.4	47.3
Kuwait	546	11.4	6.5	37.1	35.8	9.2	17.9	11.4	16.6	6.0
Latvia	548	72.5	8.9	8.3	6.4	3.9	81.4	72.5	76.7	68.9
Lithuania	574	72.9	10.0	8.6	5.3	3.2	82.9	72.9	75.0	71.0
Morocco	538	6.0	7.8	25.0	47.9	13.2	13.8	6.0	7.3	4.4
Netherlands	481	75.7	8.4	10.7	3.6	1.6	84.1	75.7	70.0	81.0
New Zealand	697	75.9	8.6	8.7	4.3	2.4	84.5	75.9	79.2	72.4
Norway	589	60.0	9.6	11.1	12.0	7.3	69.6	60.0	58.8	61.2
Qatar	1007	11.1	13.8	40.2	30.0	5.0	24.8	11.1	12.4	9.7
Russian Federation	639	59.5	11.7	15.4	10.5	2.9	71.2	59.5	61.5	57.9
Scotland	548	74.2	9.7	5.1	7.3	3.8	83.9	74.2	73.9	74.4
Singapore	716	87.4	7.1	4.6	0.4	0.5	94.5	87.4	89.6	85.5
Slovak Republic	707	41.3	9.6	22.9	23.8	2.3	51.0	41.3	44.4	38.4
Slovenia	622	78.3	6.2	5.8	5.6	4.1	84.5	78.3	80.4	76.2
Sweden	670	71.4	7.1	4.6	10.0	6.9	78.5	71.4	72.1	70.7
Tunisia	590	3.6	5.4	40.5	35.7	14.9	9.0	3.6	3.1	4.0
Ukraine	620	30.1	11.6	29.7	25.5	3.1	41.7	30.1	30.5	29.8
United States	1121	75.4	13.4	6.1	2.9	2.2	88.9	75.4	74.0	77.1
Yemen	836	1.5	3.3	54.7	30.5	9.9	4.8	1.5	1.9	1.2
International Avg.	638	50.7	9.3	17.6	17.0	5.4	60.0	50.7	50.9	50.4
Alberta, Canada	584	69.6	13.8	6.7	6.6	3.2	83.4	69.6	70.8	68.5
British Columbia, Canada	581	62.4	14.7	11.8	8.1	3.0	77.1	62.4	65.4	59.6
Dubai, UAE	442	47.3	13.2	19.7	16.7	3.2	60.4	47.3	51.0	44.1
Massachusetts, US	254	77.7	11.6	3.4	1.0	6.3	89.3	77.7	71.6	83.9
Minnesota, US	263	80.4	7.2	5.8	4.2	2.4	87.6	80.4	76.8	84.4
Ontario, Canada	490	67.7	16.7	6.8	5.3	3.5	84.4	67.7	69.4	66.3
Quebec, Canada	548	68.5	11.5	5.0	10.5	4.5	80.0	68.5	68.4	68.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M041186 - M04\_12)  
 Label: On which day John pick 5 apples  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	16.9	6.2	52.5	3.5	16.9	3.4	17.5	15.3	18.5
Armenia	575	43.7	8.1	32.1	4.8	43.7	6.5	4.8	45.4	42.0
Australia	600	61.4	1.6	31.1	1.8	61.4	0.9	3.2	63.7	59.1
Austria	694	62.4	1.3	30.0	1.1	62.4	3.2	2.0	56.2	67.8
Chinese Taipei	587	56.9	1.1	38.9	1.4	56.9	1.7	0.0	58.5	55.2
Colombia	683	17.7	11.6	41.1	3.3	17.7	3.5	22.8	18.7	16.8
Czech Republic	607	64.3	3.9	23.1	0.8	64.3	3.6	4.3	62.1	66.3
Denmark	492	67.8	3.3	18.3	2.2	67.8	3.1	5.3	66.8	69.0
El Salvador	594	12.4	10.7	55.6	2.2	12.4	4.1	15.1	12.7	12.0
England	624	70.6	0.6	23.8	1.8	70.6	1.8	1.4	67.3	74.0
Georgia	585	38.0	8.4	37.0	4.3	38.0	1.6	10.7	35.3	40.2
Germany	735	72.5	0.8	19.1	0.9	72.5	1.3	5.5	68.9	75.8
Hong Kong SAR	545	62.9	0.2	35.6	0.6	62.9	0.3	0.3	61.1	64.5
Hungary	579	53.1	3.6	30.5	0.8	53.1	3.4	8.5	50.6	55.6
Iran, Islamic Rep. of	552	22.4	10.6	46.4	4.2	22.4	4.0	12.4	21.3	23.3
Italy	636	51.6	3.3	35.9	1.8	51.6	1.4	5.9	47.3	55.8
Japan	635	59.3	5.6	27.3	1.6	59.3	1.9	4.4	62.5	56.1
Kazakhstan	570	64.3	3.3	29.9	1.8	64.3	0.3	0.5	61.7	66.9
Kuwait	546	16.4	10.5	47.2	7.4	16.4	7.0	11.5	13.0	19.9
Latvia	548	66.3	1.4	24.6	0.8	66.3	2.2	4.7	69.9	63.3
Lithuania	574	63.4	2.5	28.3	1.0	63.4	0.5	4.2	63.1	63.7
Morocco	518	17.5	6.4	46.2	7.4	17.5	5.2	17.4	17.5	17.7
Netherlands	481	78.1	4.5	14.4	0.2	78.1	1.0	1.9	74.5	81.4
New Zealand	697	57.8	2.0	33.4	1.1	57.8	2.4	3.2	56.4	59.2
Norway	589	50.0	3.0	33.5	0.6	50.0	3.0	9.9	50.7	49.4
Qatar	1006	12.5	19.0	47.6	7.7	12.5	6.5	6.8	12.3	12.6
Russian Federation	639	66.3	1.8	24.9	2.1	66.3	1.4	3.5	70.0	63.4
Scotland	548	55.7	2.1	31.7	1.5	55.7	2.8	6.2	51.5	59.7
Singapore	716	72.7	1.2	24.0	1.4	72.7	0.0	0.6	72.8	72.7
Slovak Republic	707	51.7	4.2	35.1	1.2	51.7	3.1	4.6	49.0	54.3
Slovenia	622	63.9	1.7	23.6	2.3	63.9	3.1	5.5	64.1	63.6
Sweden	670	57.9	1.6	30.2	0.8	57.9	1.1	8.4	54.9	60.7
Tunisia	591	15.5	5.1	42.8	5.9	15.5	12.2	18.5	14.5	16.4
Ukraine	620	52.8	5.0	35.0	2.1	52.8	0.9	4.2	56.3	49.5
United States	1121	71.2	1.2	21.6	2.3	71.2	1.1	2.6	68.1	74.9
Yemen	836	20.3	10.0	34.7	14.5	20.3	8.2	12.2	23.5	17.9
International Avg.	636	49.7	4.6	33.0	2.8	49.7	3.0	7.0	48.8	50.5
Alberta, Canada	584	65.7	1.4	27.0	1.1	65.7	0.9	3.9	65.5	66.0
British Columbia, Canada	581	67.9	2.2	20.4	1.7	67.9	1.9	5.7	66.7	69.1
Dubai, UAE	442	40.2	3.7	46.0	2.5	40.2	2.6	5.0	39.4	40.9
Massachusetts, US	254	71.9	0.4	19.7	0.7	71.9	1.1	6.3	68.4	75.5
Minnesota, US	263	75.4	0.8	16.5	2.6	75.4	1.6	3.2	68.7	82.5
Ontario, Canada	490	65.6	1.3	24.1	2.5	65.6	2.1	4.3	66.7	64.7
Quebec, Canada	548	67.3	1.6	19.1	2.2	67.3	3.0	6.8	62.5	72.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041336 - M04\_13)

Label: How many more girls in class A

Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	21.3	21.3	20.4	19.8	13.8	7.9	16.9	20.6	21.9
Armenia	583	33.5	33.5	17.5	12.8	14.2	16.3	5.6	30.5	36.5
Australia	600	35.6	35.6	22.6	24.1	11.4	3.1	3.2	33.6	37.6
Austria	694	33.9	33.9	24.3	19.9	10.2	8.7	3.1	31.3	36.1
Chinese Taipei	587	46.8	46.8	24.5	20.4	5.4	2.3	0.5	43.0	50.9
Colombia	683	8.8	8.8	21.3	24.1	17.2	4.5	24.1	10.0	7.7
Czech Republic	607	30.7	30.7	23.5	20.1	10.6	9.2	5.8	29.6	31.8
Denmark	493	34.1	34.1	25.2	17.7	11.9	4.0	7.1	32.7	35.7
El Salvador	594	8.9	8.9	22.4	28.8	18.7	5.2	16.0	10.5	7.4
England	624	40.3	40.3	20.7	21.0	13.0	3.2	1.9	39.4	41.2
Georgia	585	26.0	26.0	18.4	19.6	12.8	12.3	11.0	23.7	27.8
Germany	735	35.3	35.3	20.1	22.5	10.5	5.5	6.2	33.2	37.2
Hong Kong SAR	545	63.1	63.1	16.5	15.6	3.7	0.5	0.6	58.7	67.1
Hungary	579	37.3	37.3	22.1	21.1	5.9	4.6	9.0	35.8	38.8
Iran, Islamic Rep. of	552	15.1	15.1	23.7	25.4	14.9	7.7	13.2	17.4	13.2
Italy	634	25.6	25.6	21.8	26.9	13.2	5.7	6.8	21.5	29.6
Japan	635	41.3	41.3	17.9	21.5	11.3	2.6	5.6	42.4	40.1
Kazakhstan	570	51.3	51.3	17.7	18.3	11.9	0.4	0.5	52.7	49.9
Kuwait	546	11.9	11.9	22.5	32.6	13.1	7.4	12.6	9.7	14.3
Latvia	548	36.6	36.6	22.1	26.3	7.3	2.0	5.7	35.0	38.1
Lithuania	574	46.4	46.4	16.8	20.4	7.3	4.9	4.2	47.2	45.6
Morocco	514	15.2	15.2	23.9	21.6	15.7	5.3	18.4	14.5	16.0
Netherlands	481	44.0	44.0	19.6	19.4	12.5	1.7	2.7	40.5	47.3
New Zealand	697	31.8	31.8	26.1	24.5	11.3	2.4	4.0	27.3	36.4
Norway	589	31.5	31.5	23.0	17.3	9.7	6.5	12.1	36.3	26.8
Qatar	1006	12.7	12.7	25.6	31.8	16.1	6.1	7.7	13.1	12.2
Russian Federation	639	42.0	42.0	23.8	17.9	8.1	4.3	3.9	42.2	41.9
Scotland	548	34.1	34.1	24.1	20.0	10.0	4.5	7.4	33.5	34.6
Singapore	716	63.3	63.3	14.0	14.8	7.0	0.2	0.6	61.1	65.3
Slovak Republic	707	38.5	38.5	21.2	18.0	9.4	7.0	5.8	35.5	41.4
Slovenia	622	35.5	35.5	26.2	16.2	9.1	5.0	8.0	35.8	35.1
Sweden	670	37.2	37.2	22.0	19.2	7.2	5.4	8.9	40.7	33.9
Tunisia	591	14.0	14.0	17.4	19.3	14.6	14.7	20.1	18.6	10.0
Ukraine	620	32.0	32.0	26.1	23.7	8.4	5.4	4.4	35.7	28.5
United States	1121	38.4	38.4	24.1	21.1	11.9	1.4	3.2	38.6	38.1
Yemen	836	9.4	9.4	20.9	26.1	22.5	6.7	14.4	10.0	8.9
International Avg.	636	32.3	32.3	21.7	21.4	11.4	5.4	7.8	31.7	32.9
Alberta, Canada	584	38.1	38.1	24.8	21.2	9.6	2.0	4.3	36.5	39.6
British Columbia, Canada	581	34.9	34.9	25.4	20.5	10.1	1.6	7.5	37.3	32.7
Dubai, UAE	442	22.8	22.8	26.1	24.8	16.6	3.9	5.8	26.1	20.1
Massachusetts, US	254	50.8	50.8	15.7	15.2	10.6	0.3	7.3	44.4	57.4
Minnesota, US	263	47.8	47.8	18.9	19.6	8.5	0.4	4.8	50.4	44.9
Ontario, Canada	490	38.9	38.9	20.4	20.2	13.1	1.9	5.5	37.7	39.9
Quebec, Canada	548	30.2	30.2	20.0	22.7	14.1	4.5	8.4	29.8	30.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031303 - M05\_01)  
 Label: 9 rows of chairs by 15 chairs in row  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
-----										
Algeria	570	59.8	14.3	7.7	59.8	13.5	4.1	0.6	65.2	54.1
Armenia	585	69.2	8.8	5.3	69.2	8.8	7.8	0.1	67.9	70.5
Australia	601	64.9	17.8	2.6	64.9	10.9	3.7	0.2	66.4	63.6
Austria	695	80.9	12.1	1.4	80.9	3.1	2.6	0.0	76.6	84.8
Chinese Taipei	594	89.1	7.8	0.9	89.1	2.0	0.3	0.0	88.6	89.5
Colombia	689	42.1	14.0	9.9	42.1	27.0	5.5	1.5	39.6	44.3
Czech Republic	599	77.8	10.2	2.5	77.8	7.6	1.8	0.1	77.4	78.2
Denmark	502	68.8	13.8	2.3	68.8	7.5	7.2	0.5	66.0	72.1
El Salvador	587	34.1	16.3	11.8	34.1	29.7	6.6	1.7	32.6	35.4
England	621	73.5	15.6	1.8	73.5	6.7	2.3	0.0	74.0	73.0
Georgia	571	71.8	7.1	6.0	71.8	10.6	3.3	1.2	71.7	71.8
Germany	739	82.9	5.8	3.1	82.9	5.2	3.0	0.0	76.9	88.2
Hong Kong SAR	543	92.3	6.1	0.7	92.3	0.6	0.3	0.0	92.2	92.5
Hungary	583	68.9	15.0	3.0	68.9	11.0	1.9	0.2	66.0	71.6
Iran, Islamic Rep. of	548	51.6	21.9	3.3	51.6	19.7	3.4	0.2	50.9	52.1
Italy	641	74.9	13.2	2.1	74.9	9.0	0.6	0.2	71.8	78.1
Japan	639	73.4	17.4	1.5	73.4	6.3	1.3	0.1	74.1	72.6
Kazakhstan	570	83.5	3.7	3.4	83.5	9.4	0.0	0.0	85.4	81.6
Kuwait	547	40.4	21.7	8.6	40.4	18.7	6.5	4.1	38.4	42.6
Latvia	548	84.4	6.5	2.4	84.4	6.4	0.3	0.0	83.1	85.3
Lithuania	580	87.3	5.6	2.0	87.3	3.8	1.2	0.0	87.2	87.4
Morocco	513	43.6	16.7	12.9	43.6	16.4	8.4	2.0	42.2	45.1
Netherlands	477	84.3	12.0	1.4	84.3	2.0	0.3	0.0	81.6	86.9
New Zealand	690	62.2	16.8	2.7	62.2	13.1	4.9	0.2	61.9	62.6
Norway	595	63.5	18.4	3.1	63.5	10.9	2.8	1.3	59.5	67.1
Qatar	1001	28.7	29.0	12.5	28.7	21.5	7.3	0.9	27.4	30.1
Russian Federation	643	84.3	3.4	4.6	84.3	7.1	0.5	0.2	85.4	83.3
Scotland	552	59.6	18.7	3.7	59.6	13.1	4.7	0.2	52.7	66.9
Singapore	717	90.6	4.1	1.6	90.6	3.5	0.2	0.0	91.3	90.0
Slovak Republic	701	71.1	9.1	5.0	71.1	11.8	2.3	0.7	71.7	70.4
Slovenia	620	67.7	20.5	3.2	67.7	7.2	1.4	0.0	64.4	71.1
Sweden	665	82.6	6.6	1.5	82.6	7.6	1.8	0.0	82.1	83.1
Tunisia	586	47.0	19.5	5.9	47.0	6.2	19.4	1.9	51.9	42.6
Ukraine	603	70.5	10.2	6.0	70.5	11.8	1.1	0.4	70.9	70.0
United States	1130	72.8	16.8	1.6	72.8	7.8	0.9	0.1	71.0	74.7
Yemen	840	31.7	16.1	15.9	31.7	19.4	14.8	2.1	31.1	32.2
-----										
International Avg.	636	67.6	13.1	4.6	67.6	10.5	3.7	0.6	66.6	68.5
-----										
Alberta, Canada	588	67.3	17.4	2.5	67.3	11.9	0.8	0.0	63.7	71.0
British Columbia, Canada	581	63.9	17.3	1.5	63.9	14.4	2.8	0.1	61.3	66.7
Dubai, UAE	439	47.0	19.3	3.5	47.0	23.8	5.2	1.2	43.5	49.7
Massachusetts, US	254	87.7	7.6	0.6	87.7	3.1	0.7	0.4	89.4	86.0
Minnesota, US	262	76.9	13.7	0.7	76.9	8.7	0.0	0.0	78.5	75.3
Ontario, Canada	509	67.6	15.0	4.4	67.6	11.3	1.6	0.1	65.7	69.4
Quebec, Canada	543	76.8	13.2	2.5	76.8	6.0	1.4	0.1	73.6	80.3
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DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031309 - M05\_02)  
 Label: A 204 cm rope cut into 4  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	26.3	56.1	17.1	0.6	26.3	22.6	30.2
Armenia	586	84.8	11.1	3.9	0.1	84.8	85.0	84.7
Australia	601	46.0	45.7	7.9	0.4	46.0	38.3	52.8
Austria	695	63.8	26.9	9.3	0.0	63.8	65.4	62.4
Chinese Taipei	594	89.6	8.7	1.7	0.0	89.6	88.7	90.4
Colombia	689	22.3	60.2	15.9	1.6	22.3	17.5	26.5
Czech Republic	599	55.9	30.6	13.4	0.1	55.9	55.5	56.1
Denmark	502	68.0	21.6	9.6	0.8	68.0	62.2	74.8
El Salvador	588	15.4	63.8	18.1	2.6	15.4	10.3	20.0
England	621	56.8	37.6	5.7	0.0	56.8	51.5	62.4
Georgia	571	68.5	20.0	10.0	1.5	68.5	63.5	72.9
Germany	739	65.9	25.7	8.1	0.2	65.9	58.1	72.9
Hong Kong SAR	543	91.2	8.0	0.8	0.0	91.2	92.6	89.9
Hungary	583	61.2	30.6	8.0	0.2	61.2	61.3	61.0
Iran, Islamic Rep. of	548	34.6	45.5	19.6	0.3	34.6	41.3	29.2
Italy	641	62.6	26.5	10.7	0.2	62.6	59.7	65.4
Japan	639	79.3	18.6	2.0	0.1	79.3	76.4	82.3
Kazakhstan	570	87.4	10.5	2.1	0.0	87.4	90.4	84.3
Kuwait	547	6.1	58.8	31.0	4.1	6.1	3.2	9.2
Latvia	548	81.1	15.3	3.6	0.0	81.1	81.9	80.5
Lithuania	580	81.1	15.8	3.1	0.0	81.1	79.5	82.6
Morocco	544	14.1	44.5	38.6	2.8	14.1	12.2	16.4
Netherlands	477	67.3	30.4	2.3	0.0	67.3	57.9	76.6
New Zealand	690	43.9	47.3	8.5	0.2	43.9	40.2	48.1
Norway	595	39.4	49.6	9.6	1.5	39.4	31.1	46.6
Qatar	1001	3.6	74.2	20.9	1.3	3.6	2.7	4.5
Russian Federation	643	85.6	13.1	1.1	0.2	85.6	91.8	80.0
Scotland	552	40.6	47.9	11.3	0.2	40.6	35.8	45.6
Singapore	717	88.8	11.0	0.2	0.0	88.8	88.3	89.2
Slovak Republic	701	66.6	25.5	7.1	0.7	66.6	64.2	69.2
Slovenia	620	58.3	36.1	5.6	0.0	58.3	56.8	59.9
Sweden	665	62.0	29.7	8.0	0.2	62.0	57.1	67.1
Tunisia	586	32.7	50.6	14.7	2.0	32.7	34.8	30.7
Ukraine	603	68.1	24.1	7.4	0.4	68.1	67.5	68.6
United States	1130	50.2	46.5	3.1	0.1	50.2	47.8	52.8
Yemen	840	6.1	59.1	32.6	2.2	6.1	6.2	6.1
International Avg.	638	54.9	34.1	10.4	0.7	54.9	52.8	57.0
Alberta, Canada	588	38.0	56.7	5.4	0.0	38.0	28.8	47.0
British Columbia, Canada	581	41.2	51.3	7.4	0.1	41.2	34.1	48.7
Dubai, UAE	439	33.8	53.4	10.8	1.9	33.8	37.1	31.1
Massachusetts, US	254	70.3	28.8	0.5	0.4	70.3	68.2	72.5
Minnesota, US	262	55.7	43.0	1.3	0.0	55.7	54.7	56.6
Ontario, Canada	509	38.1	55.6	5.3	1.0	38.1	29.2	46.3
Quebec, Canada	543	57.1	35.5	7.3	0.1	57.1	48.5	66.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031245 - M05\_03)  
 Label: Number in box of number sentence  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	18.7	18.2	37.0	17.5	18.7	7.9	0.7	17.5	20.0
Armenia	584	46.3	11.8	29.5	5.4	46.3	6.8	0.3	53.1	39.2
Australia	601	19.1	5.9	54.8	17.3	19.1	2.5	0.4	19.0	19.3
Austria	695	4.8	9.4	71.5	10.6	4.8	3.7	0.0	5.4	4.3
Chinese Taipei	594	32.6	4.0	53.8	9.4	32.6	0.2	0.0	31.2	33.9
Colombia	689	11.7	20.5	45.4	14.9	11.7	5.3	2.1	13.6	10.0
Czech Republic	599	10.3	11.8	67.7	4.7	10.3	5.3	0.1	8.7	11.7
Denmark	502	19.3	5.4	54.8	13.0	19.3	6.5	0.9	19.3	19.4
El Salvador	.	.	.	.	.	.	.	.	.	.
England	621	24.1	5.2	57.3	10.1	24.1	3.2	0.1	23.8	24.4
Georgia	571	32.9	13.7	37.4	7.7	32.9	6.6	1.7	31.2	34.4
Germany	739	12.3	6.8	71.8	7.0	12.3	1.8	0.3	11.0	13.4
Hong Kong SAR	543	69.0	1.7	18.4	10.8	69.0	0.2	0.0	68.2	69.7
Hungary	583	30.1	14.1	42.0	11.1	30.1	2.4	0.2	31.5	28.8
Iran, Islamic Rep. of	548	8.4	12.4	56.5	19.0	8.4	3.3	0.4	6.0	10.3
Italy	640	11.9	13.0	66.4	6.3	11.9	2.2	0.3	9.4	14.3
Japan	639	32.9	3.2	49.0	12.6	32.9	2.2	0.1	28.0	37.9
Kazakhstan	570	75.2	5.4	16.8	2.5	75.2	0.1	0.0	76.4	74.0
Kuwait	547	9.2	10.3	47.9	21.7	9.2	6.4	4.5	9.3	9.1
Latvia	548	40.6	7.3	45.8	5.8	40.6	0.5	0.0	43.3	38.6
Lithuania	580	43.5	10.1	36.5	8.1	43.5	1.8	0.0	46.6	40.7
Morocco	525	14.1	16.7	36.5	19.5	14.1	10.0	3.2	10.9	17.6
Netherlands	477	21.1	4.5	51.3	21.7	21.1	1.4	0.0	18.2	24.1
New Zealand	690	11.1	9.1	60.2	16.1	11.1	3.4	0.2	11.8	10.3
Norway	595	17.3	7.8	50.4	19.0	17.3	3.9	1.6	20.9	14.1
Qatar	1001	9.0	19.6	43.8	21.1	9.0	5.0	1.6	9.4	8.5
Russian Federation	643	65.6	5.9	21.2	6.1	65.6	1.0	0.2	63.1	67.9
Scotland	552	10.4	8.8	64.9	12.2	10.4	3.6	0.2	8.8	12.0
Singapore	717	71.8	5.5	18.2	4.3	71.8	0.2	0.0	70.2	73.3
Slovak Republic	701	29.7	11.5	48.0	7.8	29.7	2.2	0.7	30.2	29.2
Slovenia	620	18.4	5.7	58.3	15.9	18.4	1.8	0.0	21.1	15.5
Sweden	665	18.8	8.4	45.3	17.2	18.8	10.1	0.2	19.8	17.8
Tunisia	586	12.8	13.8	45.7	13.9	12.8	11.7	2.0	11.6	13.9
Ukraine	603	34.1	11.5	42.3	9.9	34.1	1.6	0.5	36.8	31.4
United States	1130	27.1	5.3	55.3	10.9	27.1	1.2	0.1	26.3	28.0
Yemen	840	18.8	16.0	31.3	24.8	18.8	6.9	2.2	20.1	17.7
International Avg.	638	26.7	9.7	46.7	12.5	26.7	3.8	0.7	26.6	26.7
Alberta, Canada	588	7.1	6.8	70.4	14.3	7.1	1.4	0.0	5.7	8.4
British Columbia, Canada	581	11.7	7.6	65.5	12.7	11.7	2.3	0.2	12.6	10.7
Dubai, UAE	439	16.5	11.1	45.8	22.0	16.5	2.6	1.9	13.7	18.8
Massachusetts, US	254	31.6	2.6	54.9	9.8	31.6	0.7	0.4	25.8	37.5
Minnesota, US	262	44.9	3.9	37.4	11.9	44.9	1.9	0.0	42.2	47.5
Ontario, Canada	509	17.1	6.8	56.3	17.4	17.1	0.9	1.5	16.9	17.3
Quebec, Canada	543	17.6	6.8	61.5	13.4	17.6	0.6	0.1	11.7	24.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031242A - M05\_04A)  
 Label: Renting bikes/fill table  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	604	38.3	8.4	3.1	30.0	19.1	1.1	38.3	35.8	40.8
Armenia	586	47.8	2.6	1.6	10.6	36.5	0.9	47.8	48.8	46.7
Australia	601	58.7	5.6	2.4	19.2	13.6	0.4	58.7	58.4	59.1
Austria	695	62.8	5.1	1.6	10.4	20.0	0.0	62.8	59.8	65.5
Chinese Taipei	594	77.1	4.6	1.1	9.3	7.9	0.0	77.1	75.5	78.5
Colombia	689	21.2	4.8	1.5	33.2	36.0	3.4	21.2	18.6	23.4
Czech Republic	599	51.9	6.7	2.0	15.7	23.6	0.1	51.9	49.4	54.0
Denmark	502	65.3	4.9	2.6	10.1	16.2	0.9	65.3	66.5	64.0
El Salvador	588	9.9	2.8	0.8	33.1	50.4	3.1	9.9	8.9	10.9
England	621	64.2	5.9	3.6	13.7	12.1	0.5	64.2	60.0	68.7
Georgia	584	40.0	4.6	0.1	14.3	39.1	1.9	40.0	39.9	40.0
Germany	739	78.2	4.7	1.8	7.0	7.7	0.7	78.2	73.0	82.8
Hong Kong SAR	543	85.2	6.9	0.9	4.8	2.2	0.0	85.2	86.3	84.3
Hungary	583	65.6	7.2	2.3	14.2	10.5	0.2	65.6	65.0	66.2
Iran, Islamic Rep. of	548	22.6	5.8	5.0	31.5	34.4	0.7	22.6	26.6	19.4
Italy	641	63.9	4.7	1.8	14.4	14.9	0.3	63.9	61.7	66.0
Japan	639	85.1	5.9	2.0	5.3	1.6	0.1	85.1	83.3	86.9
Kazakhstan	570	60.2	3.9	0.7	8.0	27.2	0.0	60.2	64.6	55.8
Kuwait	547	12.4	6.3	1.3	34.7	40.6	4.8	12.4	13.9	10.7
Latvia	548	67.1	6.1	2.6	17.0	7.2	0.0	67.1	64.9	68.8
Lithuania	580	66.1	6.6	1.8	17.8	7.7	0.0	66.1	63.4	68.6
Morocco	544	25.5	6.7	2.8	28.8	32.6	3.6	25.5	20.8	30.4
Netherlands	477	71.0	6.8	1.1	12.1	9.1	0.0	71.0	71.3	70.7
New Zealand	690	51.4	9.4	3.3	19.9	15.6	0.5	51.4	49.5	53.5
Norway	595	53.9	6.8	2.9	20.3	14.5	1.6	53.9	46.8	60.1
Qatar	1001	12.5	5.3	2.4	41.2	37.1	1.6	12.5	12.4	12.5
Russian Federation	643	63.5	3.7	1.9	9.2	21.6	0.2	63.5	67.3	60.1
Scotland	552	55.8	7.3	2.7	16.3	17.7	0.2	55.8	51.9	59.9
Singapore	717	82.4	5.1	1.7	5.8	5.0	0.0	82.4	82.4	82.4
Slovak Republic	701	62.1	5.8	2.3	13.1	16.0	0.7	62.1	59.1	65.1
Slovenia	620	60.7	6.1	3.4	18.1	11.4	0.3	60.7	59.5	62.0
Sweden	665	68.1	6.0	1.8	9.9	14.0	0.2	68.1	66.6	69.7
Tunisia	586	27.0	4.9	2.4	39.6	23.7	2.4	27.0	27.6	26.5
Ukraine	603	35.9	4.0	2.5	12.3	44.7	0.5	35.9	32.3	39.4
United States	1130	62.6	5.4	2.1	10.5	19.3	0.1	62.6	63.5	61.7
Yemen	840	8.6	5.0	3.0	48.4	32.8	2.3	8.6	8.5	8.7
International Avg.	638	52.3	5.6	2.1	18.3	20.6	0.9	52.3	51.2	53.4
Alberta, Canada	588	65.1	7.5	2.4	15.4	9.5	0.0	65.1	61.7	68.5
British Columbia, Canada	581	64.0	5.8	2.7	13.6	13.7	0.2	64.0	64.3	63.7
Dubai, UAE	439	49.5	5.3	2.6	18.4	22.2	1.9	49.5	46.0	52.3
Massachusetts, US	254	72.2	6.0	1.8	9.7	9.5	0.8	72.2	70.9	73.4
Minnesota, US	262	65.1	6.1	1.7	10.7	16.4	0.0	65.1	64.2	66.0
Ontario, Canada	509	69.2	6.1	3.7	11.9	7.6	1.5	69.2	67.9	70.3
Quebec, Canada	543	65.4	5.1	1.8	17.9	9.8	0.1	65.4	61.3	69.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M031242B - M05\_04B)  
 Label: Renting bikes/same price  
 Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT	1.GIRL	2.BOY	
						REACH ED			V1 %Right
Algeria	604	4.7	1.2	42.0	50.6	1.6	5.9	6.2	5.6
Armenia	587	41.4	4.0	16.9	36.1	1.6	45.4	47.0	43.7
Australia	601	44.0	1.5	37.3	16.1	1.1	45.5	47.1	44.1
Austria	695	47.3	4.9	24.0	23.8	0.0	52.2	53.8	50.8
Chinese Taipei	594	55.1	2.5	34.4	8.0	0.0	57.6	57.9	57.4
Colombia	689	10.1	2.7	59.1	23.4	4.6	12.8	10.0	15.4
Czech Republic	599	41.8	2.7	24.2	31.1	0.2	44.5	42.0	46.6
Denmark	502	45.4	1.5	28.6	22.9	1.5	47.0	50.9	42.4
El Salvador	588	3.7	0.8	60.1	31.2	4.2	4.5	3.0	5.8
England	621	47.6	2.9	34.8	13.9	0.8	50.5	48.5	52.7
Georgia	584	23.2	2.0	31.1	41.4	2.5	25.1	28.0	22.6
Germany	739	65.1	2.1	21.9	10.0	0.9	67.2	63.9	70.1
Hong Kong SAR	543	65.0	1.8	30.9	2.3	0.0	66.8	66.3	67.2
Hungary	583	48.2	4.9	32.5	14.0	0.5	53.0	56.6	49.6
Iran, Islamic Rep. of	548	7.9	0.6	42.0	47.4	2.1	8.5	10.6	6.9
Italy	641	50.6	1.4	26.1	21.3	0.6	52.0	48.9	55.0
Japan	639	81.6	5.0	9.9	3.5	0.1	86.5	86.2	86.9
Kazakhstan	570	57.3	0.0	23.3	19.3	0.1	57.3	58.8	55.7
Kuwait	547	2.4	0.4	39.0	51.9	6.3	2.8	3.6	2.0
Latvia	548	40.4	1.7	44.5	13.4	0.1	42.0	42.3	41.9
Lithuania	580	49.6	5.8	30.8	13.7	0.1	55.4	57.2	53.9
Morocco	543	4.7	0.2	30.5	58.9	5.7	4.9	5.7	4.1
Netherlands	477	60.3	2.1	29.0	8.5	0.0	62.4	62.2	62.6
New Zealand	690	34.3	4.5	46.1	14.3	0.8	38.8	41.6	35.8
Norway	595	28.3	2.0	47.9	19.8	2.0	30.3	24.1	35.9
Qatar	1001	2.7	0.3	52.6	42.5	1.9	3.0	3.7	2.3
Russian Federation	643	48.1	1.6	28.2	21.3	0.8	49.6	53.2	46.5
Scotland	552	32.3	1.3	43.3	22.2	1.0	33.5	30.7	36.5
Singapore	717	62.6	2.4	32.3	2.7	0.0	65.0	67.8	62.5
Slovak Republic	701	45.5	3.0	29.7	20.8	1.1	48.5	44.3	52.6
Slovenia	620	47.8	3.2	34.0	14.7	0.3	51.0	53.3	48.6
Sweden	665	51.1	1.4	28.6	18.6	0.2	52.5	52.9	52.1
Tunisia	586	5.6	0.0	43.8	45.5	5.1	5.6	7.5	3.9
Ukraine	603	23.0	1.9	36.2	38.0	0.8	24.9	25.2	24.6
United States	1130	41.7	6.0	46.5	5.7	0.1	47.7	47.4	47.9
Yemen	840	1.3	0.0	37.0	58.4	3.3	1.3	1.3	1.3
International Avg.	638	36.7	2.2	35.0	24.6	1.4	38.9	39.2	38.7
Alberta, Canada	588	42.8	2.4	45.9	8.7	0.2	45.2	41.7	48.7
British Columbia, Canada	581	41.5	2.1	42.5	13.3	0.6	43.6	45.5	41.5
Dubai, UAE	439	22.5	0.8	50.4	24.1	2.3	23.2	27.5	19.9
Massachusetts, US	254	55.9	4.1	34.3	4.3	1.4	60.0	59.1	61.0
Minnesota, US	262	44.9	4.6	44.4	6.1	0.0	49.5	53.3	45.7
Ontario, Canada	509	43.9	1.9	44.9	7.8	1.5	45.8	42.0	49.3
Quebec, Canada	543	39.2	1.0	43.6	15.4	0.7	40.2	33.9	47.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M031242C - M05\_04C)

Label: Renting bikes/12 hours

Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	572	41.2	14.7	41.2	19.9	8.4	13.6	2.3	40.0	42.5
Armenia	585	41.9	23.3	41.9	5.3	7.4	20.6	1.6	43.3	40.4
Australia	601	61.6	19.3	61.6	2.9	8.1	6.9	1.2	58.4	64.4
Austria	695	57.9	14.7	57.9	2.6	11.2	13.6	0.0	57.2	58.5
Chinese Taipei	594	77.1	19.3	77.1	1.7	0.5	1.4	0.0	74.7	79.3
Colombia	689	38.5	28.4	38.5	8.1	10.6	9.1	5.4	38.7	38.3
Czech Republic	599	55.6	18.1	55.6	2.2	9.2	14.8	0.2	49.2	60.7
Denmark	502	64.2	12.6	64.2	3.4	6.5	11.7	1.5	61.9	66.9
El Salvador	588	40.7	31.3	40.7	11.1	4.7	7.6	4.6	35.7	45.1
England	621	65.1	16.9	65.1	2.9	6.3	7.9	0.9	64.5	65.7
Georgia	584	36.8	19.7	36.8	11.3	10.8	18.8	2.5	33.4	39.7
Germany	739	73.1	12.1	73.1	2.1	5.2	6.6	0.9	66.8	78.7
Hong Kong SAR	543	80.3	11.1	80.3	4.1	4.4	0.1	0.0	83.0	77.9
Hungary	583	59.0	19.1	59.0	6.1	7.7	7.6	0.5	53.8	63.8
Iran, Islamic Rep. of	548	33.2	28.4	33.2	10.7	10.8	14.4	2.4	30.9	35.1
Italy	638	60.6	17.4	60.6	5.2	7.3	9.0	0.6	59.5	61.8
Japan	639	79.6	13.7	79.6	2.6	2.3	1.6	0.2	79.0	80.2
Kazakhstan	570	68.5	16.1	68.5	9.2	3.7	2.3	0.1	70.0	67.0
Kuwait	547	35.6	14.3	35.6	17.4	12.1	14.2	6.5	37.0	34.2
Latvia	548	71.1	14.8	71.1	2.6	5.9	5.5	0.1	66.9	74.3
Lithuania	580	69.8	19.0	69.8	2.4	3.3	5.2	0.2	69.2	70.3
Morocco	525	37.8	14.9	37.8	19.0	11.2	10.4	6.6	37.5	38.0
Netherlands	477	68.7	18.6	68.7	1.2	6.0	5.4	0.0	66.4	70.9
New Zealand	690	55.7	22.8	55.7	4.8	9.7	6.1	0.9	53.3	58.4
Norway	595	57.9	22.8	57.9	3.9	7.0	6.1	2.3	53.7	61.7
Qatar	1001	41.4	18.8	41.4	17.8	9.2	10.6	2.2	42.4	40.4
Russian Federation	643	66.0	17.2	66.0	4.0	6.4	5.6	0.9	65.0	67.0
Scotland	552	48.4	21.9	48.4	4.3	10.2	14.2	1.0	44.2	52.7
Singapore	717	72.8	16.5	72.8	4.3	5.6	0.9	0.0	73.9	71.8
Slovak Republic	701	55.1	17.3	55.1	6.7	12.6	7.2	1.1	55.6	54.6
Slovenia	620	61.7	17.9	61.7	4.2	7.7	8.2	0.3	61.7	61.8
Sweden	665	65.8	15.0	65.8	2.2	8.4	8.2	0.3	61.6	70.2
Tunisia	586	41.0	15.9	41.0	11.9	6.9	18.0	6.2	40.8	41.2
Ukraine	603	54.5	23.4	54.5	6.1	7.1	8.1	0.9	53.5	55.4
United States	1130	65.1	21.8	65.1	2.3	9.1	1.4	0.3	63.3	67.0
Yemen	839	30.1	11.7	30.1	31.1	10.3	12.6	4.2	26.4	33.1
International Avg.	636	56.5	18.4	56.5	7.2	7.6	8.8	1.6	54.8	58.0
Alberta, Canada	588	64.3	19.8	64.3	4.2	7.3	4.3	0.2	60.8	67.7
British Columbia, Canada	581	60.3	21.4	60.3	2.1	8.6	7.0	0.6	61.6	59.0
Dubai, UAE	439	49.5	23.5	49.5	6.2	8.7	9.7	2.5	46.9	51.4
Massachusetts, US	254	73.7	13.0	73.7	2.0	7.5	2.4	1.4	73.6	73.7
Minnesota, US	262	65.5	21.9	65.5	2.7	8.8	1.2	0.0	63.0	67.9
Ontario, Canada	509	68.0	15.4	68.0	4.4	6.7	3.6	1.8	69.6	66.5
Quebec, Canada	543	60.4	17.2	60.4	5.0	10.4	6.2	0.7	56.7	64.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031247 - M05\_05)  
 Label: A man took his children to a fair  
 Type: CR Key: -

COUNTRY	N	20	10	11	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	602	5.1	3.2	0.2	2.5	57.4	29.3	2.4	8.5	5.1	4.8	5.5
Armenia	587	10.3	48.9	0.2	1.7	25.1	11.9	2.0	59.4	10.3	13.3	7.3
Australia	601	14.5	24.8	0.7	1.6	47.0	10.3	1.2	39.9	14.5	14.1	14.9
Austria	695	2.4	12.4	0.0	3.1	61.5	20.6	0.0	14.8	2.4	3.3	1.6
Chinese Taipei	594	17.7	4.7	0.0	1.4	66.2	10.0	0.0	22.4	17.7	16.6	18.8
Colombia	689	0.3	12.7	0.5	1.0	64.5	15.4	5.5	13.6	0.3	0.1	0.5
Czech Republic	599	8.5	17.3	0.2	2.7	45.7	25.4	0.2	26.0	8.5	9.7	7.5
Denmark	502	21.9	27.5	1.0	1.5	35.1	11.5	1.5	50.4	21.9	19.2	24.9
El Salvador	588	0.5	7.8	0.0	0.8	71.4	14.8	4.8	8.3	0.5	0.8	0.1
England	621	20.6	13.6	0.2	7.4	49.7	7.5	0.9	34.4	20.6	21.6	19.5
Georgia	584	8.2	11.9	0.3	0.9	41.1	34.5	3.2	20.4	8.2	7.1	9.1
Germany	739	9.3	25.6	0.6	4.3	40.4	19.0	0.9	35.5	9.3	7.3	11.0
Hong Kong SAR	543	13.2	21.7	0.9	2.9	54.1	7.3	0.0	35.8	13.2	13.2	13.2
Hungary	583	12.1	19.5	0.0	0.8	57.2	9.9	0.5	31.6	12.1	13.6	10.7
Iran, Islamic Rep. of	548	1.3	7.8	0.0	5.4	62.4	20.6	2.4	9.2	1.3	1.7	1.1
Italy	641	9.3	16.1	0.0	4.7	47.0	22.2	0.8	25.3	9.3	8.4	10.1
Japan	639	14.8	16.6	0.2	0.0	63.9	4.4	0.2	31.6	14.8	15.3	14.2
Kazakhstan	570	8.7	44.7	0.0	0.3	39.3	7.0	0.1	53.4	8.7	10.3	6.9
Kuwait	547	0.5	4.3	0.3	1.3	53.6	33.3	6.7	5.1	0.5	0.7	0.4
Latvia	548	11.9	24.3	0.2	1.0	45.1	17.5	0.1	36.3	11.9	16.0	8.8
Lithuania	580	12.3	16.4	0.1	3.0	52.3	15.5	0.4	28.8	12.3	13.6	11.1
Morocco	544	1.3	4.5	0.0	6.9	40.3	40.1	6.8	5.8	1.3	1.5	1.1
Netherlands	477	18.7	22.4	0.4	5.2	47.0	6.3	0.0	41.5	18.7	19.5	18.0
New Zealand	690	18.0	22.5	0.5	2.3	47.3	8.5	0.9	41.0	18.0	19.6	16.2
Norway	595	16.8	28.7	0.4	0.9	38.6	11.7	2.8	46.0	16.8	18.6	15.2
Qatar	1001	0.6	4.6	0.0	0.1	68.7	23.7	2.3	5.2	0.6	0.6	0.6
Russian Federation	643	11.8	27.6	0.0	1.6	44.4	13.7	0.9	39.4	11.8	12.3	11.4
Scotland	552	13.0	19.1	0.2	4.1	50.1	12.4	1.0	32.3	13.0	11.6	14.4
Singapore	717	51.6	3.3	0.0	8.1	35.9	1.1	0.0	54.9	51.6	50.0	53.1
Slovak Republic	701	14.3	21.9	0.2	1.9	44.2	16.4	1.1	36.4	14.3	15.2	13.5
Slovenia	620	14.6	9.2	0.5	0.4	65.8	8.9	0.5	24.4	14.6	13.4	15.9
Sweden	665	32.3	21.1	1.1	2.1	30.3	12.8	0.3	54.5	32.3	32.4	32.2
Tunisia	585	1.6	4.4	0.0	1.2	68.9	17.4	6.4	6.0	1.6	2.4	0.9
Ukraine	603	1.7	17.3	0.0	0.7	57.9	21.5	0.9	19.1	1.7	2.2	1.3
United States	1130	20.8	9.8	0.8	11.2	53.7	3.3	0.4	31.4	20.8	22.2	19.3
Yemen	839	0.6	2.3	0.0	0.0	58.8	34.0	4.4	2.8	0.6	0.4	0.7
International Avg.	638	11.7	16.7	0.3	2.6	50.9	16.1	1.7	28.6	11.7	12.0	11.4
Alberta, Canada	588	17.1	20.9	0.8	2.1	53.9	5.1	0.2	38.8	17.1	15.8	18.3
British Columbia, Canada	581	18.4	24.3	0.8	1.5	43.9	10.4	0.6	43.5	18.4	17.9	19.0
Dubai, UAE	439	10.3	8.9	0.0	1.0	62.0	15.2	2.5	19.3	10.3	9.2	11.3
Massachusetts, US	254	36.9	13.3	1.1	12.9	30.6	3.7	1.4	51.3	36.9	39.8	34.0
Minnesota, US	262	27.9	11.3	0.5	13.9	44.2	2.3	0.0	39.6	27.9	25.6	30.1
Ontario, Canada	509	20.6	17.3	1.8	3.0	51.9	3.5	1.9	39.7	20.6	22.9	18.4
Quebec, Canada	543	23.6	12.5	0.8	3.2	52.7	6.5	0.7	36.8	23.6	22.4	24.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031219 - M05\_06)  
 Label: Area of rectangular paper vs L shape  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	570	38.7	14.8	38.7	14.6	22.9	5.8	3.2	35.9	41.7
Armenia	583	50.4	15.2	50.4	7.7	14.2	9.9	2.5	55.6	45.1
Australia	601	53.9	23.1	53.9	6.5	11.5	3.4	1.5	57.7	50.5
Austria	695	55.1	19.0	55.1	5.6	16.0	3.9	0.4	55.1	55.1
Chinese Taipei	594	77.7	8.8	77.7	7.6	5.2	0.7	0.0	79.6	75.9
Colombia	689	29.9	25.1	29.9	13.4	18.1	6.1	7.4	27.3	32.2
Czech Republic	599	47.4	22.7	47.4	5.0	18.6	6.0	0.3	45.3	49.1
Denmark	502	59.0	17.1	59.0	5.3	10.2	6.3	2.0	56.7	61.7
El Salvador	588	31.0	27.7	31.0	14.2	16.4	5.2	5.6	29.9	32.1
England	621	48.8	25.6	48.8	9.7	13.6	1.2	1.1	47.8	49.9
Georgia	.	.	.	.	.	.	.	.	.	.
Germany	739	52.4	23.1	52.4	4.8	17.0	1.8	0.9	52.1	52.7
Hong Kong SAR	543	58.7	16.3	58.7	6.5	18.2	0.3	0.0	58.8	58.5
Hungary	583	54.8	23.8	54.8	5.3	11.9	3.6	0.5	55.9	53.9
Iran, Islamic Rep. of	548	39.5	18.6	39.5	10.8	19.5	8.0	3.6	41.4	37.9
Italy	638	57.0	15.9	57.0	9.4	10.9	4.7	2.0	53.4	60.6
Japan	639	63.9	16.7	63.9	9.0	8.6	1.3	0.6	64.9	62.8
Kazakhstan	570	65.7	16.5	65.7	11.3	6.0	0.3	0.1	69.4	62.0
Kuwait	547	31.5	22.0	31.5	12.6	16.2	9.4	8.3	31.7	31.3
Latvia	548	51.1	18.7	51.1	6.8	20.2	3.0	0.1	52.5	50.2
Lithuania	580	53.7	14.5	53.7	11.0	17.1	2.9	0.6	55.4	52.2
Morocco	522	25.6	16.9	25.6	17.9	22.8	8.1	8.7	26.9	24.2
Netherlands	477	47.7	24.2	47.7	7.4	18.7	1.9	0.2	50.5	44.9
New Zealand	690	39.5	30.0	39.5	10.8	15.2	3.7	0.9	40.8	38.0
Norway	595	43.1	24.3	43.1	9.0	15.0	5.6	2.9	42.4	43.8
Qatar	1001	32.0	28.6	32.0	16.7	11.0	9.0	2.6	33.4	30.6
Russian Federation	643	55.6	19.4	55.6	6.3	15.0	2.1	1.6	55.2	55.8
Scotland	552	42.0	26.8	42.0	7.9	17.3	4.6	1.4	40.3	43.8
Singapore	717	56.2	15.2	56.2	6.0	22.4	0.3	0.0	53.5	58.5
Slovak Republic	701	55.4	17.7	55.4	6.2	15.5	4.1	1.2	56.0	54.8
Slovenia	620	51.9	20.8	51.9	7.7	15.2	3.9	0.6	50.5	53.3
Sweden	665	39.7	24.0	39.7	9.6	20.9	5.0	0.8	37.6	41.9
Tunisia	585	27.4	13.7	27.4	14.5	19.5	17.4	7.4	27.5	27.3
Ukraine	603	43.4	21.8	43.4	10.3	20.7	2.4	1.4	42.2	44.5
United States	1130	46.3	22.6	46.3	7.5	21.2	1.8	0.5	44.1	48.6
Yemen	839	25.2	17.4	25.2	23.2	17.7	11.1	5.5	27.1	23.6
International Avg.	638	47.2	20.2	47.2	9.7	16.0	4.7	2.2	47.3	47.1
Alberta, Canada	588	45.2	24.1	45.2	9.6	18.5	2.4	0.2	46.1	44.3
British Columbia, Canada	581	41.5	31.4	41.5	8.7	13.5	3.5	1.4	39.0	44.2
Dubai, UAE	439	40.2	25.8	40.2	8.3	17.7	5.4	2.6	38.1	41.8
Massachusetts, US	254	59.0	18.4	59.0	6.1	13.0	2.1	1.4	58.8	59.1
Minnesota, US	262	59.2	18.9	59.2	4.7	16.2	1.0	0.0	58.8	59.7
Ontario, Canada	509	43.1	30.3	43.1	8.0	14.1	2.2	2.2	44.8	41.7
Quebec, Canada	543	45.2	26.6	45.2	6.9	17.4	2.8	1.2	44.7	45.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031173 - M05\_07)  
 Label: How many pencils Maria has total  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	575	28.2	17.8	20.5	25.4	28.2	4.3	3.8	26.9	29.5
Armenia	585	57.1	9.2	19.4	5.1	57.1	4.5	4.7	57.2	57.1
Australia	601	61.3	8.5	12.4	14.3	61.3	1.7	1.7	62.7	60.1
Austria	695	68.1	12.4	12.7	4.1	68.1	1.7	0.9	65.8	70.1
Chinese Taipei	594	85.5	3.3	5.9	4.8	85.5	0.5	0.0	86.5	84.5
Colombia	689	23.4	21.2	31.5	9.2	23.4	6.6	8.1	18.4	27.9
Czech Republic	599	69.9	8.3	11.1	9.0	69.9	1.2	0.5	69.4	70.2
Denmark	502	67.5	10.8	7.0	10.1	67.5	2.1	2.3	65.9	69.5
El Salvador	586	24.7	22.6	29.3	13.3	24.7	3.3	6.7	22.2	26.9
England	621	71.8	8.1	9.5	8.3	71.8	0.8	1.5	71.6	72.1
Georgia	584	58.4	8.9	14.9	11.1	58.4	1.3	5.3	58.6	58.3
Germany	739	77.7	9.0	5.4	5.5	77.7	1.5	0.9	73.3	81.6
Hong Kong SAR	543	89.3	2.4	3.5	4.4	89.3	0.4	0.0	88.0	90.5
Hungary	583	65.8	8.1	16.4	7.5	65.8	1.0	1.2	66.9	64.8
Iran, Islamic Rep. of	548	29.2	12.7	34.0	14.8	29.2	4.5	4.8	31.0	27.7
Italy	637	58.5	13.8	19.1	4.9	58.5	1.5	2.2	52.5	64.3
Japan	639	68.0	12.3	9.4	8.1	68.0	1.1	1.0	64.6	71.6
Kazakhstan	570	80.6	3.9	9.4	5.9	80.6	0.1	0.1	83.0	78.1
Kuwait	547	16.6	19.9	25.9	20.5	16.6	7.9	9.2	17.0	16.2
Latvia	548	78.8	5.8	5.6	9.3	78.8	0.3	0.2	82.0	76.3
Lithuania	580	68.5	12.3	6.5	9.8	68.5	1.8	1.2	67.3	69.5
Morocco	517	22.0	18.4	21.4	21.6	22.0	7.1	9.4	17.5	27.1
Netherlands	477	79.6	4.3	7.8	7.7	79.6	0.5	0.2	79.1	80.0
New Zealand	690	58.5	10.1	10.0	17.1	58.5	3.2	1.2	63.9	52.5
Norway	595	55.8	14.2	11.5	13.6	55.8	1.4	3.5	50.1	60.8
Qatar	1001	16.5	24.4	30.9	21.0	16.5	4.2	3.0	15.8	17.4
Russian Federation	643	73.8	6.2	9.0	8.7	73.8	0.7	1.6	78.4	69.7
Scotland	552	57.1	16.2	11.3	12.5	57.1	0.7	2.1	55.1	59.3
Singapore	717	89.8	1.3	4.7	3.9	89.8	0.4	0.0	89.1	90.3
Slovak Republic	701	67.6	6.3	15.2	8.5	67.6	0.8	1.6	63.9	71.5
Slovenia	620	68.4	8.5	12.8	7.3	68.4	1.9	1.2	67.0	69.9
Sweden	665	72.5	9.7	6.3	9.5	72.5	1.0	1.0	72.2	72.8
Tunisia	585	27.5	15.8	17.3	19.2	27.5	8.0	12.3	28.5	26.5
Ukraine	603	52.7	19.1	15.2	9.9	52.7	1.7	1.4	47.8	57.4
United States	1130	64.5	10.1	14.8	8.7	64.5	1.3	0.7	64.4	64.5
Yemen	839	19.2	23.8	22.1	20.2	19.2	8.4	6.3	18.8	19.4
International Avg.	636	57.6	11.7	14.4	11.0	57.6	2.5	2.8	56.7	58.5
Alberta, Canada	588	55.7	15.2	13.6	13.4	55.7	1.6	0.5	50.0	61.4
British Columbia, Canada	581	61.1	12.3	12.4	9.9	61.1	2.6	1.8	59.1	63.2
Dubai, UAE	439	44.4	16.2	25.9	8.5	44.4	2.4	2.6	38.4	49.1
Massachusetts, US	254	80.7	5.4	5.3	5.8	80.7	1.1	1.7	82.6	78.7
Minnesota, US	262	66.5	7.7	14.7	8.3	66.5	2.7	0.0	64.9	68.0
Ontario, Canada	509	57.8	11.9	13.1	12.8	57.8	2.1	2.4	55.7	59.7
Quebec, Canada	543	73.9	5.4	9.2	8.3	73.9	1.4	1.8	66.3	82.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031085 - M05\_08)  
 Label: Length of side AB in figure  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	573	36.0	36.0	14.1	16.5	22.3	5.5	5.6	35.6	36.5
Armenia	586	53.4	53.4	6.4	5.4	22.5	6.3	5.9	56.8	50.0
Australia	601	46.9	46.9	13.7	10.3	23.6	3.5	2.0	46.8	47.0
Austria	695	46.4	46.4	9.5	10.6	24.7	7.9	0.9	48.9	44.2
Chinese Taipei	594	49.0	49.0	5.5	8.0	35.3	2.0	0.2	48.9	49.1
Colombia	689	30.5	30.5	12.1	11.1	28.7	6.3	11.3	35.0	26.5
Czech Republic	599	59.4	59.4	11.3	5.8	15.6	7.5	0.5	60.5	58.4
Denmark	502	49.3	49.3	9.2	11.4	19.1	8.1	2.8	52.4	45.7
El Salvador	587	37.1	37.1	14.3	13.5	23.1	3.7	8.4	40.3	34.2
England	621	44.3	44.3	10.7	15.4	24.3	3.5	1.9	44.5	44.1
Georgia	584	39.3	39.3	8.2	7.2	33.7	6.0	5.6	40.8	37.9
Germany	739	49.8	49.8	11.4	10.2	21.8	5.9	0.9	49.4	50.2
Hong Kong SAR	543	64.4	64.4	6.6	11.1	17.2	0.6	0.0	64.0	64.8
Hungary	583	30.5	30.5	9.5	9.3	44.1	4.9	1.7	31.6	29.5
Iran, Islamic Rep. of	548	39.4	39.4	13.0	7.5	28.4	5.8	6.0	41.6	37.6
Italy	640	58.9	58.9	8.1	6.9	19.0	4.6	2.5	55.9	62.0
Japan	639	69.7	69.7	9.5	3.7	14.8	1.2	1.0	70.5	68.8
Kazakhstan	570	63.8	63.8	7.0	3.8	25.2	0.1	0.2	66.5	61.1
Kuwait	547	30.6	30.6	15.0	14.8	20.7	6.9	11.9	31.3	29.8
Latvia	548	53.0	53.0	14.8	7.8	20.7	3.5	0.2	56.1	50.6
Lithuania	580	45.2	45.2	11.1	8.3	28.8	5.1	1.5	48.3	42.3
Morocco	527	32.4	32.4	20.7	12.9	12.1	9.9	12.0	32.7	32.2
Netherlands	477	49.0	49.0	17.7	10.1	21.0	1.8	0.3	49.7	48.5
New Zealand	690	43.8	43.8	17.6	14.9	17.7	3.4	2.6	44.4	43.1
Norway	595	48.2	48.2	16.5	11.1	16.1	4.5	3.6	50.7	46.0
Qatar	1001	34.0	34.0	16.3	17.2	23.5	5.0	4.1	36.2	31.6
Russian Federation	643	58.0	58.0	10.8	6.8	20.8	2.0	1.6	62.3	54.1
Scotland	552	37.7	37.7	15.4	12.5	27.0	5.0	2.4	42.1	33.0
Singapore	717	73.4	73.4	5.0	6.8	14.7	0.1	0.0	75.3	71.8
Slovak Republic	701	56.5	56.5	9.2	4.0	20.9	7.8	1.7	55.3	57.8
Slovenia	620	55.2	55.2	14.7	6.7	18.2	3.4	1.8	54.3	56.2
Sweden	665	63.5	63.5	12.8	8.0	10.3	4.1	1.3	62.6	64.5
Tunisia	586	30.3	30.3	10.5	16.7	18.4	10.7	13.5	32.4	28.3
Ukraine	603	42.3	42.3	12.2	7.5	32.2	4.1	1.8	44.0	40.7
United States	1130	42.3	42.3	13.8	9.4	32.0	1.8	0.7	45.6	38.9
Yemen	839	26.4	26.4	16.0	21.2	22.7	6.1	7.5	31.2	22.6
International Avg.	637	46.9	46.9	12.0	10.1	22.8	4.7	3.5	48.5	45.5
Alberta, Canada	588	43.3	43.3	15.4	12.7	24.6	2.5	1.5	39.6	46.9
British Columbia, Canada	581	42.2	42.2	14.0	10.3	26.9	4.1	2.4	40.7	43.7
Dubai, UAE	439	37.3	37.3	11.3	11.4	31.4	5.6	3.1	38.3	36.6
Massachusetts, US	254	59.2	59.2	9.0	10.8	16.6	2.7	1.7	58.5	59.9
Minnesota, US	262	51.1	51.1	12.7	7.1	26.5	1.4	1.3	50.9	51.3
Ontario, Canada	509	38.7	38.7	18.0	13.6	24.1	3.1	2.6	38.0	39.3
Quebec, Canada	543	49.2	49.2	12.9	8.6	22.7	4.3	2.3	49.7	48.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M031172 - M05\_09)  
 Label: Chart showing number of houses  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	22.0	22.0	16.7	18.6	28.6	7.5	6.6	21.0	23.1
Armenia	586	51.0	51.0	10.6	7.4	16.0	7.9	7.0	53.5	48.4
Australia	601	68.4	68.4	6.9	6.0	13.8	2.4	2.5	67.8	69.0
Austria	695	64.9	64.9	7.4	7.0	16.8	2.2	1.6	66.7	63.3
Chinese Taipei	594	88.7	88.7	1.9	2.8	5.6	0.9	0.2	89.6	87.9
Colombia	689	22.0	22.0	15.3	12.2	31.4	6.3	12.8	16.9	26.4
Czech Republic	598	57.8	57.8	7.3	9.4	21.9	3.1	0.7	54.3	60.5
Denmark	501	66.4	66.4	7.8	4.1	12.7	5.1	3.9	66.9	65.8
El Salvador	587	20.9	20.9	21.5	14.2	32.0	2.3	9.1	20.2	21.6
England	621	78.6	78.6	4.5	6.7	8.0	0.2	2.0	80.9	76.2
Georgia	583	39.7	39.7	9.2	16.5	21.4	7.0	6.2	41.8	37.9
Germany	739	80.7	80.7	5.6	3.2	7.9	1.3	1.3	79.2	82.0
Hong Kong SAR	543	88.7	88.7	3.7	2.4	2.2	3.0	0.0	90.0	87.5
Hungary	583	58.9	58.9	7.6	9.8	19.3	1.6	2.7	64.2	53.8
Iran, Islamic Rep. of	548	35.0	35.0	13.0	13.4	27.4	4.6	6.5	38.4	32.3
Italy	641	58.7	58.7	8.6	6.2	19.6	4.2	2.8	55.7	61.6
Japan	639	76.8	76.8	4.6	4.2	9.2	3.7	1.4	78.1	75.5
Kazakhstan	570	75.8	75.8	6.5	9.8	7.7	0.0	0.2	79.2	72.4
Kuwait	547	15.2	15.2	16.2	22.8	27.5	5.9	12.5	14.2	16.3
Latvia	548	71.2	71.2	7.8	8.2	10.9	0.6	1.3	76.4	67.3
Lithuania	580	70.7	70.7	10.7	5.1	8.4	2.8	2.3	74.2	67.6
Morocco	528	16.0	16.0	19.9	15.9	26.9	7.4	14.0	16.6	15.2
Netherlands	477	77.3	77.3	4.5	7.4	9.4	0.8	0.5	80.6	74.1
New Zealand	690	61.3	61.3	8.7	6.4	19.5	1.2	2.9	65.2	57.0
Norway	595	53.0	53.0	7.8	9.4	21.9	3.4	4.4	52.9	53.1
Qatar	1001	17.0	17.0	26.5	18.4	28.3	4.9	4.7	17.6	16.4
Russian Federation	643	76.0	76.0	5.9	7.5	6.2	2.5	1.9	80.0	72.4
Scotland	552	67.5	67.5	10.6	5.6	12.2	0.8	3.3	67.8	67.2
Singapore	717	87.1	87.1	3.2	3.9	5.6	0.2	0.0	85.1	88.8
Slovak Republic	701	64.1	64.1	10.8	5.2	14.8	2.6	2.5	61.3	67.0
Slovenia	620	68.8	68.8	6.6	8.0	12.1	2.2	2.3	69.9	67.6
Sweden	665	71.3	71.3	5.8	5.5	13.9	1.6	1.9	71.9	70.7
Tunisia	585	20.3	20.3	14.4	12.9	26.1	11.1	15.2	20.5	20.1
Ukraine	603	58.2	58.2	11.1	11.6	14.6	1.8	2.6	60.9	55.6
United States	1130	79.4	79.4	5.9	4.1	8.6	1.1	0.9	81.3	77.4
Yemen	840	10.4	10.4	24.7	18.7	30.8	7.5	7.9	11.1	9.8
International Avg.	636	56.7	56.7	10.0	9.2	16.6	3.4	4.1	57.6	55.8
Alberta, Canada	588	70.2	70.2	7.3	7.9	9.9	2.1	2.6	72.7	67.7
British Columbia, Canada	581	73.8	73.8	7.0	6.2	7.3	2.5	3.3	74.2	73.3
Dubai, UAE	439	45.2	45.2	9.9	9.1	25.7	6.7	3.3	42.6	47.2
Massachusetts, US	254	84.8	84.8	4.2	2.9	4.0	1.4	2.7	82.5	87.1
Minnesota, US	262	79.8	79.8	7.3	6.7	4.1	0.4	1.7	79.3	80.3
Ontario, Canada	509	72.3	72.3	6.7	6.9	8.9	1.9	3.2	74.2	70.6
Quebec, Canada	543	71.5	71.5	6.5	3.7	13.9	1.7	2.6	68.9	74.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041010 - M06\_01)  
 Label: Place value of 8  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	586	35.6	5.7	8.3	35.6	43.4	5.1	1.9	34.5	36.8
Armenia	572	49.9	4.3	5.3	49.9	23.4	16.8	0.2	50.5	49.2
Australia	589	76.2	2.5	3.9	76.2	14.0	3.0	0.3	78.6	73.9
Austria	696	88.8	2.0	2.2	88.8	6.9	0.1	0.0	89.8	87.9
Chinese Taipei	593	87.3	1.1	0.9	87.3	10.0	0.7	0.0	87.3	87.3
Colombia	694	33.0	11.2	7.5	33.0	32.3	12.9	3.1	28.3	38.1
Czech Republic	593	62.1	4.9	1.9	62.1	21.6	9.0	0.5	58.0	65.2
Denmark	512	65.8	2.3	2.5	65.8	19.0	9.8	0.5	62.6	69.1
El Salvador	591	40.8	3.8	3.9	40.8	46.4	2.6	2.4	42.2	39.6
England	616	70.0	5.7	4.4	70.0	16.8	2.5	0.5	75.4	64.8
Georgia	580	63.4	6.9	4.7	63.4	20.0	2.4	2.5	61.1	65.4
Germany	748	71.9	4.6	1.5	71.9	16.8	5.1	0.1	68.9	74.4
Hong Kong SAR	538	86.4	1.6	4.7	86.4	6.8	0.5	0.0	88.3	84.9
Hungary	579	65.8	9.4	4.5	65.8	14.0	6.1	0.2	69.6	62.2
Iran, Islamic Rep. of	544	40.7	13.6	5.1	40.7	35.6	4.2	0.8	41.5	40.0
Italy	635	69.7	3.1	3.4	69.7	18.6	5.0	0.2	68.0	71.3
Japan	644	84.3	1.7	1.4	84.3	11.4	0.9	0.2	84.0	84.6
Kazakhstan	570	87.9	1.4	1.9	87.9	8.5	0.2	0.0	88.0	87.8
Kuwait	538	64.5	5.9	8.1	64.5	16.4	4.5	0.7	70.9	57.3
Latvia	564	60.1	5.9	5.4	60.1	23.7	4.9	0.0	64.8	57.0
Lithuania	577	68.7	2.7	2.4	68.7	18.2	8.0	0.0	67.8	69.7
Morocco	538	41.5	6.7	9.7	41.5	30.0	9.3	2.8	38.2	44.5
Netherlands	471	84.9	3.7	2.1	84.9	8.5	0.7	0.0	85.7	84.1
New Zealand	690	69.3	5.0	3.6	69.3	18.9	3.0	0.2	66.6	71.9
Norway	582	59.1	4.0	2.2	59.1	31.9	1.8	1.1	58.6	59.6
Qatar	997	42.3	9.2	13.0	42.3	30.1	4.5	0.9	45.3	39.0
Russian Federation	640	85.2	2.5	1.5	85.2	9.1	1.5	0.3	87.8	82.4
Scotland	554	66.5	4.5	3.7	66.5	19.9	5.2	0.2	60.5	72.5
Singapore	726	95.7	1.0	1.4	95.7	1.8	0.0	0.1	96.3	95.2
Slovak Republic	701	78.0	3.7	2.6	78.0	12.0	3.1	0.6	74.5	81.4
Slovenia	612	50.0	8.6	3.7	50.0	31.0	6.0	0.8	44.2	56.1
Sweden	666	84.7	1.5	1.4	84.7	10.5	1.6	0.4	83.5	85.8
Tunisia	585	47.0	6.8	7.8	47.0	21.1	14.3	3.0	46.4	47.6
Ukraine	607	69.6	2.6	3.0	69.6	21.7	3.1	0.0	68.4	70.9
United States	1135	87.1	2.6	2.0	87.1	7.2	0.6	0.4	85.5	88.7
Yemen	837	42.9	7.9	16.2	42.9	23.8	8.2	1.1	44.8	41.4
International Avg.	636	66.0	4.7	4.4	66.0	19.5	4.6	0.7	65.7	66.3
Alberta, Canada	583	66.1	3.8	5.7	66.1	21.5	2.7	0.3	58.9	73.4
British Columbia, Canada	589	63.7	5.9	4.7	63.7	22.8	2.1	0.8	60.4	66.9
Dubai, UAE	429	68.3	6.5	4.8	68.3	18.0	2.4	0.0	69.5	67.1
Massachusetts, US	252	88.0	3.3	1.5	88.0	5.6	0.9	0.7	92.0	83.9
Minnesota, US	262	85.4	1.2	2.6	85.4	9.8	0.5	0.5	82.4	88.6
Ontario, Canada	505	63.6	4.3	3.7	63.6	24.1	3.5	0.8	59.2	67.7
Quebec, Canada	531	84.6	0.8	1.1	84.6	11.8	1.5	0.2	82.8	86.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041098 - M06\_02)  
 Label: How many cans must Sean buy  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	584	25.5	12.3	13.4	41.0	25.5	5.8	2.1	26.8	24.2
Armenia	577	42.3	11.0	6.1	31.0	42.3	9.4	0.2	46.7	37.8
Australia	589	51.9	3.5	8.7	32.4	51.9	3.0	0.5	51.3	52.4
Austria	696	39.4	6.3	4.9	46.9	39.4	2.6	0.0	37.0	41.5
Chinese Taipei	593	74.1	1.3	4.3	19.7	74.1	0.5	0.0	71.1	76.6
Colombia	694	37.7	10.7	8.0	34.2	37.7	5.5	3.9	39.0	36.4
Czech Republic	593	44.2	4.8	6.0	40.3	44.2	4.2	0.5	37.2	49.7
Denmark	511	57.5	4.2	8.5	25.9	57.5	3.4	0.5	58.3	56.8
El Salvador	591	40.4	12.6	8.1	32.3	40.4	4.0	2.7	43.7	37.3
England	616	67.0	4.0	6.0	21.9	67.0	0.6	0.5	71.4	62.6
Georgia	580	35.6	10.3	6.0	40.9	35.6	4.8	2.5	30.4	40.1
Germany	748	53.6	4.0	4.2	36.2	53.6	1.9	0.1	52.0	54.9
Hong Kong SAR	538	81.0	2.0	4.7	12.0	81.0	0.3	0.0	80.1	81.8
Hungary	579	38.5	8.0	5.6	44.5	38.5	3.0	0.4	34.2	42.5
Iran, Islamic Rep. of	544	20.7	13.1	9.7	50.4	20.7	5.2	0.8	21.9	19.9
Italy	632	41.7	4.6	7.5	41.9	41.7	4.0	0.3	41.4	42.0
Japan	644	66.7	4.1	5.6	22.8	66.7	0.7	0.2	63.2	69.9
Kazakhstan	570	43.3	8.1	4.3	44.1	43.3	0.3	0.0	46.0	40.8
Kuwait	538	23.5	15.5	14.3	37.8	23.5	8.0	0.9	26.9	19.7
Latvia	564	44.7	5.8	6.8	40.0	44.7	2.7	0.0	46.8	43.3
Lithuania	577	54.7	1.9	6.2	36.1	54.7	1.1	0.0	53.6	55.8
Morocco	538	22.3	19.5	17.6	30.0	22.3	7.4	3.1	23.7	20.5
Netherlands	471	75.6	1.9	4.5	17.4	75.6	0.6	0.0	73.8	77.6
New Zealand	690	49.0	5.0	10.3	33.6	49.0	1.7	0.4	47.8	50.2
Norway	582	46.6	7.8	12.6	28.5	46.6	3.4	1.1	43.9	48.9
Qatar	997	22.0	26.4	16.4	29.7	22.0	4.3	1.2	20.9	23.2
Russian Federation	640	45.3	4.1	3.8	44.8	45.3	1.0	1.0	46.3	44.2
Scotland	553	54.3	5.5	7.6	29.8	54.3	2.2	0.6	49.2	59.5
Singapore	726	66.2	2.2	4.5	27.0	66.2	0.0	0.1	63.8	68.6
Slovak Republic	701	36.3	4.3	5.0	51.1	36.3	2.7	0.6	34.6	37.9
Slovenia	612	35.6	6.5	7.0	46.5	35.6	3.3	1.1	37.0	34.1
Sweden	666	61.5	3.5	6.2	26.8	61.5	1.7	0.4	58.4	64.4
Tunisia	585	22.5	18.8	10.7	35.1	22.5	9.3	3.5	24.6	20.8
Ukraine	607	23.7	13.4	13.7	45.0	23.7	4.0	0.2	22.2	25.3
United States	1135	54.4	3.1	8.0	33.5	54.4	0.6	0.5	50.6	58.1
Yemen	837	21.8	21.8	17.7	29.8	21.8	7.6	1.3	25.1	19.2
International Avg.	636	45.0	8.1	8.2	34.5	45.0	3.3	0.9	44.5	45.5
Alberta, Canada	583	53.6	2.7	6.8	33.9	53.6	2.8	0.3	52.3	54.9
British Columbia, Canada	589	52.5	3.7	8.3	31.8	52.5	2.9	0.8	48.9	55.8
Dubai, UAE	429	42.7	10.0	9.8	33.9	42.7	3.6	0.0	41.3	44.0
Massachusetts, US	252	73.6	1.2	3.1	21.3	73.6	0.0	0.7	80.8	66.3
Minnesota, US	262	65.4	3.7	4.5	25.4	65.4	0.5	0.5	66.1	64.5
Ontario, Canada	505	58.8	3.6	7.3	26.6	58.8	2.7	1.0	62.6	55.2
Quebec, Canada	531	47.2	2.8	8.4	39.1	47.2	2.3	0.2	45.3	49.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041064 - M06\_03)  
 Label: Shade 1/2 of the larger triangle  
 Type: CR Key: -

COUNTRY	N	10	11	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	604	18.0	2.8	9.7	27.7	39.3	2.6	20.8	20.9	20.7
Armenia	581	61.2	11.0	11.8	9.6	6.2	0.2	72.2	75.2	69.0
Australia	589	55.0	21.8	10.3	8.3	4.0	0.5	76.8	77.1	76.4
Austria	696	43.3	14.5	13.4	15.4	13.4	0.0	57.8	56.1	59.4
Chinese Taipei	593	57.1	8.2	30.3	3.7	0.7	0.0	65.3	64.0	66.4
Colombia	694	13.4	2.9	24.6	29.7	24.0	5.3	16.3	15.6	17.1
Czech Republic	593	35.1	5.3	13.0	17.6	28.3	0.7	40.4	37.2	42.9
Denmark	512	62.4	16.6	3.9	8.2	8.4	0.5	79.0	76.8	81.3
El Salvador	591	12.7	0.1	27.9	23.4	32.4	3.4	12.9	9.4	16.1
England	616	66.8	20.0	4.6	5.6	2.5	0.5	86.8	89.9	83.7
Georgia	580	45.9	4.8	19.8	13.5	13.0	3.0	50.7	52.1	49.5
Germany	748	26.2	26.4	13.5	16.9	16.9	0.1	52.7	49.4	55.4
Hong Kong SAR	538	78.7	12.1	6.9	2.1	0.1	0.0	90.9	90.2	91.4
Hungary	579	66.0	10.4	13.3	6.2	3.7	0.4	76.4	76.7	76.1
Iran, Islamic Rep. of	544	25.0	3.1	44.8	16.9	9.1	1.1	28.1	26.2	29.5
Italy	635	51.8	9.2	24.9	6.6	7.1	0.5	60.9	59.7	62.0
Japan	644	53.2	10.7	26.5	8.7	0.7	0.2	63.9	58.4	69.1
Kazakhstan	570	69.6	3.3	17.8	6.5	2.8	0.0	72.9	69.4	76.2
Kuwait	538	36.2	2.7	25.1	19.8	15.1	1.1	38.9	42.4	35.0
Latvia	564	75.1	7.1	12.3	4.4	1.1	0.0	82.2	85.2	80.3
Lithuania	577	71.0	9.0	14.8	3.4	1.6	0.1	80.0	82.4	77.6
Morocco	552	11.1	1.4	26.4	34.4	23.5	3.2	12.5	11.2	14.0
Netherlands	471	67.4	15.8	10.5	5.3	1.0	0.0	83.2	80.1	86.5
New Zealand	690	57.6	19.8	10.4	8.2	3.6	0.4	77.4	79.9	75.0
Norway	582	41.5	9.1	14.1	15.5	18.7	1.1	50.6	46.1	54.4
Qatar	997	20.1	6.0	30.3	25.2	17.0	1.4	26.1	28.1	24.0
Russian Federation	640	56.6	6.3	26.8	4.5	4.8	1.0	62.9	64.4	61.4
Scotland	554	56.6	16.3	13.1	10.7	2.8	0.6	72.8	68.0	77.7
Singapore	726	71.3	16.2	6.3	5.8	0.2	0.1	87.6	89.1	86.0
Slovak Republic	701	60.0	3.6	17.0	9.5	9.2	0.6	63.7	62.5	64.8
Slovenia	612	55.5	19.3	14.4	7.5	2.2	1.1	74.9	73.8	76.0
Sweden	666	40.0	9.0	10.4	18.7	21.5	0.4	49.0	46.6	51.3
Tunisia	585	6.9	3.3	11.3	33.6	41.2	3.8	10.1	10.3	10.0
Ukraine	607	42.9	5.2	25.0	13.0	13.6	0.4	48.1	50.0	46.1
United States	1135	57.4	18.9	14.3	7.7	1.2	0.5	76.3	72.9	79.7
Yemen	837	23.4	1.5	27.8	24.5	21.4	1.3	24.9	25.7	24.3
International Avg.	637	47.0	9.8	17.4	13.3	11.5	1.0	56.8	56.2	57.4
Alberta, Canada	583	43.5	12.3	30.1	10.3	3.6	0.3	55.7	52.4	59.1
British Columbia, Canada	589	50.7	11.3	21.5	11.8	3.9	0.8	62.0	61.2	62.7
Dubai, UAE	429	40.0	9.6	28.3	14.9	7.3	0.0	49.5	57.0	42.8
Massachusetts, US	252	72.6	18.3	3.9	4.5	0.0	0.7	90.9	94.0	87.7
Minnesota, US	262	69.4	18.5	8.3	2.9	0.5	0.5	87.8	88.6	87.0
Ontario, Canada	505	50.8	14.1	16.7	12.0	5.4	1.0	64.9	63.8	65.9
Quebec, Canada	531	68.4	12.2	13.0	4.0	2.2	0.2	80.6	78.6	82.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041003 - M06\_04)  
 Label: Smallest 3 digit number  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	605	10.5	66.7	18.2	4.6	10.5	13.4	7.6
Armenia	581	60.4	30.3	9.1	0.2	60.4	62.3	58.4
Australia	589	61.5	35.0	3.0	0.5	61.5	60.7	62.2
Austria	696	48.1	45.8	6.1	0.0	48.1	47.0	49.1
Chinese Taipei	593	61.9	36.9	1.2	0.0	61.9	63.5	60.5
Colombia	694	14.0	71.7	8.4	6.0	14.0	11.4	16.8
Czech Republic	593	48.4	41.4	9.4	0.9	48.4	48.7	48.2
Denmark	512	41.0	48.9	9.5	0.7	41.0	39.4	42.6
El Salvador	591	2.1	85.5	8.3	4.2	2.1	1.7	2.4
England	616	70.7	27.7	1.0	0.5	70.7	72.2	69.3
Georgia	580	51.8	36.4	8.4	3.4	51.8	52.7	51.0
Germany	748	57.1	38.2	4.2	0.4	57.1	55.2	58.7
Hong Kong SAR	538	83.2	16.7	0.1	0.0	83.2	85.1	81.5
Hungary	579	74.1	24.8	0.8	0.4	74.1	72.4	75.6
Iran, Islamic Rep. of	544	41.4	50.2	7.1	1.3	41.4	47.3	36.7
Italy	635	39.8	52.2	7.4	0.6	39.8	37.0	42.2
Japan	644	72.2	26.2	1.3	0.4	72.2	68.9	75.3
Kazakhstan	570	71.7	25.0	3.3	0.0	71.7	79.5	64.4
Kuwait	538	14.0	69.4	15.0	1.6	14.0	15.0	12.8
Latvia	564	62.0	36.5	1.5	0.0	62.0	65.6	59.6
Lithuania	577	60.2	35.9	3.8	0.1	60.2	60.1	60.3
Morocco	553	18.2	56.4	22.0	3.4	18.2	16.2	20.2
Netherlands	471	29.3	67.4	3.1	0.2	29.3	25.9	32.9
New Zealand	690	49.6	47.2	2.5	0.6	49.6	54.8	44.4
Norway	582	24.6	67.8	6.0	1.6	24.6	21.7	27.1
Qatar	997	5.3	81.4	11.8	1.5	5.3	5.5	5.1
Russian Federation	640	75.1	23.1	0.8	1.0	75.1	80.6	69.3
Scotland	554	60.0	33.7	5.6	0.7	60.0	56.9	63.0
Singapore	726	67.2	32.4	0.3	0.1	67.2	69.2	65.1
Slovak Republic	701	55.0	40.0	4.2	0.9	55.0	56.0	54.0
Slovenia	612	40.6	53.6	4.6	1.1	40.6	41.4	39.9
Sweden	666	41.6	48.9	9.0	0.5	41.6	39.8	43.3
Tunisia	585	17.6	66.0	11.7	4.7	17.6	17.7	17.5
Ukraine	607	40.5	53.8	5.2	0.4	40.5	43.5	37.5
United States	1135	58.3	39.2	2.0	0.5	58.3	56.6	60.1
Yemen	837	4.1	78.0	16.1	1.9	4.1	4.3	3.8
International Avg.	637	45.4	46.9	6.4	1.2	45.4	45.8	45.0
Alberta, Canada	583	56.4	40.2	3.0	0.4	56.4	57.0	55.8
British Columbia, Canada	589	63.7	32.5	2.8	0.9	63.7	64.0	63.4
Dubai, UAE	429	37.5	56.4	6.1	0.0	37.5	43.2	32.4
Massachusetts, US	252	72.6	26.0	0.7	0.7	72.6	80.4	64.6
Minnesota, US	262	67.1	31.3	1.1	0.5	67.1	66.5	67.8
Ontario, Canada	505	59.5	34.5	4.9	1.1	59.5	61.6	57.5
Quebec, Canada	531	59.6	37.0	3.2	0.2	59.6	58.3	61.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041104 - M06\_05)  
 Label: Number between 5 and 6  
 Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	36.3	1.7	45.6	11.8	4.6	38.0	37.4	38.6
Armenia	581	54.3	10.5	25.0	9.5	0.6	64.9	65.7	64.0
Australia	589	14.7	53.7	27.5	3.5	0.5	68.4	66.5	70.2
Austria	696	13.2	31.2	46.2	9.5	0.0	44.3	39.8	48.5
Chinese Taipei	593	63.4	0.8	29.6	6.2	0.0	64.2	62.8	65.4
Colombia	694	5.0	5.0	74.3	8.8	6.9	10.0	5.8	14.6
Czech Republic	593	30.7	15.0	43.4	9.9	0.9	45.7	43.3	47.6
Denmark	512	41.3	38.0	15.7	4.1	0.8	79.3	78.4	80.3
El Salvador	591	3.0	6.8	80.9	5.2	4.2	9.7	8.1	11.3
England	616	47.4	33.9	16.0	2.1	0.5	81.3	83.8	78.9
Georgia	580	16.7	15.9	47.3	16.3	3.7	32.6	33.1	32.2
Germany	748	26.8	34.3	29.4	9.0	0.4	61.1	57.5	64.2
Hong Kong SAR	538	77.0	1.7	18.6	2.6	0.0	78.8	75.8	81.3
Hungary	579	23.2	28.3	39.6	8.4	0.4	51.6	50.6	52.4
Iran, Islamic Rep. of	544	24.9	2.2	59.0	11.9	2.0	27.1	27.2	27.1
Italy	635	53.0	1.8	36.8	7.2	1.2	54.7	52.3	56.9
Japan	644	60.8	0.3	36.3	2.3	0.4	61.0	54.1	67.4
Kazakhstan	570	62.6	2.8	33.0	1.7	0.0	65.3	64.1	66.5
Kuwait	538	1.5	5.2	74.0	17.3	2.1	6.7	7.0	6.4
Latvia	564	44.5	1.3	45.1	9.0	0.2	45.8	46.7	45.1
Lithuania	577	42.8	5.0	42.5	9.4	0.4	47.8	45.2	50.4
Morocco	553	22.0	1.0	50.2	22.5	4.3	23.0	22.2	23.4
Netherlands	471	14.4	72.5	11.0	1.8	0.3	86.9	86.8	87.0
New Zealand	690	19.9	36.8	38.9	3.7	0.7	56.7	56.3	57.1
Norway	582	27.8	30.6	34.0	5.5	2.1	58.4	58.4	58.4
Qatar	997	2.8	10.5	70.1	14.7	1.9	13.3	9.9	17.0
Russian Federation	640	47.7	8.6	32.4	10.2	1.1	56.3	57.4	55.1
Scotland	554	7.2	57.4	26.4	8.4	0.7	64.6	60.7	68.5
Singapore	726	46.7	24.8	27.5	1.0	0.1	71.4	70.1	72.8
Slovak Republic	701	34.5	8.7	46.4	9.6	0.9	43.2	40.2	45.9
Slovenia	612	26.4	15.9	49.7	6.9	1.1	42.2	40.0	44.5
Sweden	666	27.9	32.4	29.7	8.7	1.3	60.3	61.5	59.1
Tunisia	585	11.2	11.1	59.6	12.8	5.2	22.4	25.2	20.1
Ukraine	607	25.2	7.3	54.0	12.8	0.7	32.5	31.1	33.9
United States	1135	11.4	45.3	38.9	3.7	0.7	56.7	53.6	59.8
Yemen	837	5.3	2.3	72.3	17.7	2.4	7.6	7.4	7.8
International Avg.	637	29.8	18.3	41.9	8.5	1.5	48.2	46.8	49.4
Alberta, Canada	583	25.4	32.8	35.6	5.8	0.4	58.2	54.4	62.1
British Columbia, Canada	589	16.4	42.5	35.9	4.2	0.9	58.9	54.1	63.4
Dubai, UAE	429	18.9	22.4	48.5	9.9	0.3	41.3	39.6	42.8
Massachusetts, US	252	13.7	61.5	20.8	3.0	1.0	75.2	76.9	73.4
Minnesota, US	262	19.8	58.6	19.5	1.6	0.5	78.4	77.3	79.5
Ontario, Canada	505	17.8	36.7	37.0	7.3	1.1	54.6	55.4	53.7
Quebec, Canada	531	27.4	24.4	40.7	7.0	0.4	51.8	40.0	64.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041299 - M06\_06)  
 Label: Fraction of the cake eaten  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	6.3	13.8	51.2	23.3	5.3	6.3	8.4	4.1
Armenia	581	56.2	12.4	22.6	8.0	0.8	56.2	63.0	49.0
Australia	589	38.9	12.5	43.4	4.3	0.9	38.9	29.6	47.3
Austria	696	31.3	11.9	40.9	15.7	0.2	31.3	31.9	30.8
Chinese Taipei	593	36.7	28.4	32.7	2.2	0.0	36.7	36.1	37.3
Colombia	694	2.9	17.8	59.4	11.8	8.2	2.9	3.3	2.4
Czech Republic	593	11.3	7.9	57.3	22.7	0.9	11.3	9.3	12.8
Denmark	512	27.1	19.2	45.2	7.8	0.8	27.1	22.9	31.2
El Salvador	591	1.3	13.1	70.3	10.7	4.6	1.3	0.5	2.1
England	616	54.7	15.1	26.5	3.1	0.6	54.7	53.4	56.0
Georgia	580	12.6	23.5	45.3	14.8	3.9	12.6	10.2	14.8
Germany	748	38.3	9.4	41.3	10.5	0.6	38.3	35.8	40.4
Hong Kong SAR	538	58.5	13.3	26.4	1.8	0.0	58.5	56.1	60.5
Hungary	579	19.8	25.0	48.6	6.1	0.6	19.8	17.0	22.3
Iran, Islamic Rep. of	544	5.0	14.2	60.8	17.9	2.1	5.0	7.0	3.4
Italy	635	15.7	24.6	45.2	13.3	1.2	15.7	11.3	19.6
Japan	644	25.1	42.5	30.8	1.3	0.4	25.1	24.4	25.7
Kazakhstan	570	38.2	10.3	48.5	3.0	0.0	38.2	40.5	35.9
Kuwait	538	9.7	14.8	56.7	16.6	2.2	9.7	9.5	10.0
Latvia	564	10.2	16.3	68.8	4.5	0.2	10.2	9.3	10.8
Lithuania	577	12.9	22.4	55.1	8.9	0.7	12.9	12.8	13.1
Morocco	552	3.2	5.0	50.1	36.4	5.3	3.2	3.2	3.1
Netherlands	471	20.8	34.9	42.1	1.9	0.3	20.8	12.6	29.6
New Zealand	690	38.8	13.2	44.6	2.8	0.7	38.8	35.4	42.2
Norway	582	10.3	19.5	60.1	7.8	2.3	10.3	7.7	12.6
Qatar	997	6.9	9.0	65.1	17.0	2.0	6.9	5.0	9.0
Russian Federation	640	14.7	18.7	59.6	5.9	1.1	14.7	13.6	15.9
Scotland	554	35.2	6.1	49.2	8.9	0.7	35.2	27.7	42.8
Singapore	726	84.9	2.0	12.6	0.4	0.1	84.9	88.0	81.8
Slovak Republic	701	17.1	9.8	57.8	14.0	1.3	17.1	15.5	18.7
Slovenia	612	18.5	8.6	64.9	6.6	1.4	18.5	16.4	20.7
Sweden	666	18.2	10.3	57.2	12.8	1.5	18.2	16.7	19.6
Tunisia	585	2.2	2.1	68.5	21.2	6.0	2.2	2.2	2.1
Ukraine	607	3.6	13.6	71.9	10.1	0.7	3.6	4.2	2.9
United States	1135	35.4	24.1	37.7	2.0	0.8	35.4	30.0	40.6
Yemen	837	4.8	6.2	63.4	22.8	2.8	4.8	5.2	4.5
International Avg.	637	23.0	15.3	49.5	10.5	1.7	23.0	21.5	24.3
Alberta, Canada	583	18.3	18.3	58.2	4.8	0.4	18.3	14.8	21.9
British Columbia, Canada	589	22.3	20.3	50.7	5.5	1.1	22.3	18.4	26.0
Dubai, UAE	429	15.9	20.2	54.6	9.0	0.3	15.9	15.6	16.2
Massachusetts, US	252	54.8	15.2	28.1	0.8	1.0	54.8	50.9	58.7
Minnesota, US	262	54.2	15.4	28.1	1.7	0.5	54.2	50.7	58.2
Ontario, Canada	505	29.1	14.7	50.9	4.1	1.2	29.1	26.5	31.5
Quebec, Canada	531	26.6	16.3	50.0	6.7	0.4	26.6	20.8	32.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041329 - M06\_07)  
 Label: Which one is a right angle  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	545	51.9	51.9	7.9	7.0	17.2	9.3	6.7	50.3	53.5
Armenia	576	59.9	59.9	4.9	5.2	21.6	7.5	0.8	61.3	58.5
Australia	588	56.1	56.1	6.8	6.3	27.7	2.0	1.1	57.6	54.8
Austria	696	75.9	75.9	4.2	3.3	13.3	3.2	0.2	72.4	79.1
Chinese Taipei	593	90.8	90.8	1.2	0.9	4.8	2.2	0.0	90.8	90.9
Colombia	694	35.1	35.1	8.0	8.2	36.3	3.4	9.0	33.4	36.9
Czech Republic	593	60.2	60.2	5.4	3.8	25.4	4.2	1.0	57.2	62.6
Denmark	511	76.0	76.0	6.0	2.6	9.6	4.9	0.8	73.4	78.6
El Salvador	591	41.1	41.1	12.0	6.9	32.4	2.5	5.1	38.5	43.4
England	616	68.4	68.4	4.7	5.1	20.3	0.8	0.6	66.6	70.3
Georgia	580	44.3	44.3	6.2	3.6	37.8	3.8	4.3	42.0	46.4
Germany	748	65.2	65.2	5.8	5.2	18.1	5.1	0.6	66.7	63.8
Hong Kong SAR	538	95.5	95.5	0.4	0.5	1.6	1.9	0.0	97.2	94.1
Hungary	579	68.0	68.0	2.7	3.2	19.9	5.5	0.7	65.0	70.6
Iran, Islamic Rep. of	544	57.2	57.2	4.8	1.9	30.6	3.5	2.1	62.4	53.1
Italy	634	70.2	70.2	4.7	2.9	17.8	2.7	1.7	71.2	69.3
Japan	644	80.0	80.0	7.5	2.8	7.9	1.5	0.4	79.5	80.4
Kazakhstan	570	73.6	73.6	8.2	3.4	14.7	0.1	0.0	77.6	69.9
Kuwait	538	41.1	41.1	8.1	4.7	34.9	9.0	2.2	42.6	39.4
Latvia	564	69.5	69.5	2.7	5.5	21.5	0.5	0.2	74.1	66.5
Lithuania	577	56.5	56.5	11.9	15.6	12.4	3.1	0.7	56.8	56.1
Morocco	512	49.9	49.9	1.8	11.0	14.2	16.7	6.4	50.1	49.8
Netherlands	471	53.7	53.7	5.6	6.5	32.0	1.8	0.3	47.2	60.8
New Zealand	690	47.4	47.4	10.9	13.0	25.2	2.6	0.9	44.8	50.0
Norway	582	56.4	56.4	8.0	9.0	20.8	3.4	2.5	54.1	58.3
Qatar	997	39.8	39.8	5.9	4.1	38.7	9.2	2.2	42.6	36.8
Russian Federation	640	76.3	76.3	4.0	4.6	12.0	1.9	1.3	79.7	72.7
Scotland	554	64.6	64.6	5.1	4.9	22.8	1.9	0.9	61.2	68.0
Singapore	726	93.2	93.2	1.3	0.4	4.6	0.4	0.1	93.5	92.9
Slovak Republic	701	58.4	58.4	4.9	5.8	23.3	6.1	1.4	58.0	58.8
Slovenia	612	76.4	76.4	3.3	3.0	12.7	3.1	1.5	75.9	76.9
Sweden	666	59.3	59.3	6.7	5.2	23.7	3.6	1.6	60.9	57.7
Tunisia	585	42.9	42.9	5.6	2.7	15.9	26.2	6.8	42.0	43.6
Ukraine	607	52.4	52.4	5.2	7.7	31.4	2.3	0.8	53.4	51.5
United States	1135	65.9	65.9	4.6	3.1	23.9	1.7	0.8	60.4	71.3
Yemen	837	24.6	24.6	12.9	11.5	29.2	18.4	3.3	27.5	22.3
International Avg.	634	61.1	61.1	5.8	5.3	21.0	4.9	1.9	60.8	61.4
Alberta, Canada	583	55.3	55.3	9.9	9.5	21.5	3.0	0.8	54.6	56.1
British Columbia, Canada	589	56.7	56.7	9.0	8.0	21.2	3.8	1.4	56.8	56.6
Dubai, UAE	429	52.2	52.2	7.3	6.2	28.8	5.1	0.5	57.6	47.3
Massachusetts, US	252	79.2	79.2	3.3	1.6	12.6	2.3	1.0	80.9	77.4
Minnesota, US	262	77.8	77.8	1.4	1.2	18.4	0.7	0.5	76.3	79.3
Ontario, Canada	505	55.2	55.2	9.1	5.6	25.5	3.5	1.2	55.9	54.5
Quebec, Canada	531	71.9	71.9	4.1	3.7	17.1	2.3	0.9	69.7	74.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041143 - M06\_08)  
 Label: Identify shapes in the picture  
 Type: CR Key: -

COUNTRY	N	20	10	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	605	8.9	3.0	6.7	65.1	9.7	6.7	11.9	8.9	8.5	9.3
Armenia	581	40.3	7.3	1.1	21.9	28.6	0.8	47.6	40.3	44.3	36.2
Australia	589	70.5	6.4	1.5	18.2	2.2	1.2	76.9	70.5	75.6	65.8
Austria	696	35.4	16.4	8.3	28.0	11.7	0.2	51.8	35.4	40.1	31.1
Chinese Taipei	593	61.9	5.2	1.1	30.9	0.8	0.0	67.1	61.9	64.5	59.8
Colombia	694	16.5	12.0	7.8	47.6	6.7	9.4	28.5	16.5	19.4	13.4
Czech Republic	593	45.8	16.5	5.0	28.3	3.4	1.0	62.3	45.8	45.9	45.8
Denmark	512	46.0	4.5	3.9	40.1	4.7	0.8	50.5	46.0	47.6	44.4
El Salvador	591	7.0	6.2	14.3	56.2	11.0	5.2	13.2	7.0	7.1	7.0
England	616	67.4	14.4	2.3	14.5	0.8	0.6	81.8	67.4	71.2	63.7
Georgia	580	56.8	8.7	4.1	13.8	12.0	4.6	65.5	56.8	61.4	52.7
Germany	748	41.4	22.0	10.7	20.7	4.6	0.6	63.4	41.4	43.7	39.5
Hong Kong SAR	538	71.0	2.1	0.6	25.5	0.8	0.0	73.1	71.0	71.9	70.2
Hungary	579	54.7	19.3	3.2	18.3	3.6	0.8	74.0	54.7	60.4	49.5
Iran, Islamic Rep. of	544	39.6	4.2	3.3	33.9	16.1	2.8	43.9	39.6	48.5	32.7
Italy	635	66.0	11.9	0.8	14.9	4.6	1.7	77.9	66.0	68.7	63.6
Japan	644	70.0	6.4	1.0	21.7	0.6	0.4	76.4	70.0	70.6	69.5
Kazakhstan	570	77.7	5.5	2.0	13.2	1.5	0.0	83.3	77.7	83.4	72.3
Kuwait	538	24.7	8.7	4.8	47.2	12.4	2.2	33.4	24.7	28.1	20.9
Latvia	564	50.4	9.8	7.0	29.9	2.6	0.2	60.2	50.4	54.5	47.7
Lithuania	577	34.7	7.7	3.8	51.0	2.0	0.7	42.4	34.7	37.4	31.9
Morocco	553	12.8	3.0	1.6	55.5	20.8	6.3	15.8	12.8	12.9	12.8
Netherlands	471	36.5	34.2	8.3	19.2	1.5	0.3	70.7	36.5	36.4	36.5
New Zealand	690	54.2	15.0	6.6	20.4	3.0	0.9	69.2	54.2	57.4	50.9
Norway	582	46.3	9.5	5.7	31.7	4.3	2.5	55.8	46.3	44.4	47.9
Qatar	997	20.0	7.8	5.1	53.0	11.6	2.5	27.8	20.0	23.8	16.0
Russian Federation	640	74.6	10.2	1.8	8.5	3.5	1.3	84.8	74.6	81.5	67.3
Scotland	554	61.2	15.3	4.5	15.6	2.5	0.9	76.5	61.2	60.6	61.8
Singapore	726	81.4	4.1	1.4	12.4	0.6	0.1	85.5	81.4	84.8	78.0
Slovak Republic	701	58.6	9.9	1.1	25.2	3.7	1.5	68.5	58.6	61.5	55.8
Slovenia	612	65.6	17.9	1.9	12.2	0.6	1.8	83.5	65.6	70.3	60.7
Sweden	666	52.8	14.1	6.2	23.5	1.4	2.0	66.9	52.8	58.0	47.8
Tunisia	585	19.1	4.1	3.8	50.5	15.3	7.2	23.3	19.1	22.6	16.3
Ukraine	607	29.9	19.6	5.5	39.2	4.9	0.8	49.6	29.9	35.2	24.5
United States	1135	63.9	9.7	2.2	21.6	1.6	1.0	73.6	63.9	64.3	63.4
Yemen	837	5.2	1.8	2.8	69.3	17.4	3.5	7.1	5.2	5.7	4.9
International Avg.	637	46.4	10.4	4.2	30.5	6.5	2.0	56.8	46.4	49.2	43.7
Alberta, Canada	583	62.3	11.8	1.5	20.1	3.6	0.8	74.0	62.3	64.2	60.3
British Columbia, Canada	589	67.3	9.6	1.1	17.3	3.1	1.7	76.8	67.3	67.1	67.4
Dubai, UAE	429	51.6	13.2	5.3	23.2	6.2	0.5	64.8	51.6	60.2	43.7
Massachusetts, US	252	77.1	6.6	1.1	12.1	1.4	1.7	83.7	77.1	81.8	72.2
Minnesota, US	262	61.5	11.8	0.8	23.8	1.4	0.5	73.4	61.5	69.1	53.1
Ontario, Canada	505	71.7	9.9	0.3	14.4	2.6	1.2	81.6	71.7	73.8	69.8
Quebec, Canada	531	53.0	13.4	2.0	28.3	2.0	1.4	66.4	53.0	55.1	50.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041158 - M06\_09)  
 Label: Number of boxes in the stack  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	592	41.2	13.0	13.0	41.2	22.0	4.0	6.7	41.7	40.7
Armenia	578	54.2	6.6	11.9	54.2	16.4	9.9	1.0	52.4	56.2
Australia	589	75.8	2.6	9.6	75.8	9.6	1.3	1.2	69.6	81.4
Austria	696	70.6	4.2	14.6	70.6	10.2	0.2	0.2	65.1	75.7
Chinese Taipei	593	95.0	0.9	2.9	95.0	1.2	0.0	0.0	96.6	93.7
Colombia	694	34.8	8.1	10.6	34.8	30.5	4.9	11.0	31.7	38.2
Czech Republic	593	69.2	3.5	11.9	69.2	12.9	1.5	1.1	64.1	73.1
Denmark	512	73.5	2.2	13.8	73.5	5.5	3.3	1.6	71.0	76.0
El Salvador	591	32.1	10.8	11.2	32.1	37.1	2.9	5.8	30.2	34.0
England	616	66.9	6.5	13.6	66.9	11.8	0.5	0.6	67.3	66.6
Georgia	580	49.1	7.5	13.5	49.1	19.5	4.5	6.0	49.5	48.8
Germany	748	82.0	2.9	8.8	82.0	3.6	1.6	1.0	79.0	84.5
Hong Kong SAR	538	83.3	1.7	10.0	83.3	4.5	0.5	0.0	80.6	85.6
Hungary	579	72.9	2.5	10.8	72.9	11.6	1.1	1.0	72.2	73.6
Iran, Islamic Rep. of	544	38.2	9.8	13.0	38.2	32.6	2.2	4.1	35.7	40.2
Italy	635	47.8	4.6	10.0	47.8	32.4	2.9	2.3	48.4	47.2
Japan	644	82.2	2.0	11.7	82.2	2.8	1.0	0.4	82.3	82.1
Kazakhstan	570	76.5	5.9	7.6	76.5	10.1	0.0	0.0	73.9	78.9
Kuwait	538	33.0	10.8	14.5	33.0	34.7	4.4	2.5	36.0	29.8
Latvia	564	78.9	3.2	10.0	78.9	7.2	0.3	0.4	78.7	79.1
Lithuania	577	83.0	3.3	7.9	83.0	4.9	0.3	0.7	82.1	83.8
Morocco	546	40.6	12.8	13.7	40.6	18.3	7.5	7.1	37.7	43.7
Netherlands	471	90.3	0.6	6.9	90.3	1.5	0.4	0.3	90.6	90.0
New Zealand	690	67.3	4.6	12.3	67.3	13.7	1.3	0.9	62.6	72.1
Norway	582	60.2	5.0	14.5	60.2	14.7	2.9	2.7	54.2	65.3
Qatar	997	23.8	15.7	16.7	23.8	36.6	4.5	2.7	22.4	25.3
Russian Federation	640	73.0	2.1	11.0	73.0	11.5	1.0	1.4	70.2	76.0
Scotland	554	63.8	4.3	12.3	63.8	16.1	2.4	1.2	62.6	64.9
Singapore	726	87.2	1.3	6.3	87.2	4.9	0.2	0.1	88.4	85.9
Slovak Republic	701	67.5	4.3	13.2	67.5	12.0	1.4	1.5	66.9	68.0
Slovenia	612	66.8	4.2	15.8	66.8	10.4	0.9	2.0	67.9	65.6
Sweden	666	72.8	4.1	13.9	72.8	5.9	1.2	2.0	72.0	73.6
Tunisia	585	29.2	7.7	13.5	29.2	31.6	10.9	7.2	31.0	27.8
Ukraine	607	54.5	4.3	13.2	54.5	26.3	0.8	1.0	50.1	59.0
United States	1135	67.9	4.7	10.2	67.9	15.4	0.7	1.1	64.3	71.5
Yemen	836	25.3	18.3	16.7	25.3	26.1	8.9	4.6	22.7	27.4
International Avg.	637	62.0	5.7	11.7	62.0	15.7	2.6	2.3	60.3	63.5
Alberta, Canada	583	70.6	3.8	12.8	70.6	9.6	2.4	0.8	71.0	70.2
British Columbia, Canada	589	65.5	3.5	13.2	65.5	14.1	2.0	1.7	61.4	69.3
Dubai, UAE	429	41.4	12.0	9.7	41.4	30.7	5.5	0.7	40.6	42.0
Massachusetts, US	252	69.8	1.8	11.8	69.8	13.9	0.9	1.7	68.9	70.9
Minnesota, US	262	74.7	4.6	10.1	74.7	9.7	0.4	0.5	72.9	76.6
Ontario, Canada	505	63.0	5.9	9.1	63.0	18.8	1.4	1.8	63.7	62.3
Quebec, Canada	531	74.5	2.8	11.3	74.5	8.8	1.2	1.4	68.6	80.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041328 - M06\_10)  
 Label: Draw reflection of the triangle  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	36.7	39.2	16.4	7.7	36.7	36.6	36.8
Armenia	581	57.6	27.4	13.7	1.3	57.6	56.2	59.2
Australia	589	72.3	22.2	4.1	1.4	72.3	68.0	76.2
Austria	696	65.0	26.4	8.3	0.3	65.0	60.8	68.9
Chinese Taipei	593	38.4	56.0	5.6	0.0	38.4	39.9	37.2
Colombia	694	15.5	52.3	20.1	12.2	15.5	13.6	17.4
Czech Republic	593	53.0	32.4	13.0	1.6	53.0	51.0	54.6
Denmark	512	89.3	6.3	1.5	2.8	89.3	87.7	91.0
El Salvador	591	7.1	54.9	31.3	6.7	7.1	5.8	8.4
England	616	72.6	25.5	1.2	0.7	72.6	73.4	71.8
Georgia	580	16.6	42.9	33.2	7.3	16.6	13.4	19.4
Germany	748	78.3	17.9	2.1	1.7	78.3	78.6	78.0
Hong Kong SAR	538	88.1	11.3	0.6	0.0	88.1	88.1	88.2
Hungary	579	67.0	28.1	3.3	1.6	67.0	66.3	67.7
Iran, Islamic Rep. of	544	28.0	41.5	25.0	5.5	28.0	29.4	26.9
Italy	635	68.5	20.7	7.9	2.9	68.5	67.9	69.0
Japan	644	84.3	14.0	1.2	0.5	84.3	82.8	85.7
Kazakhstan	570	55.5	37.0	7.5	0.0	55.5	55.3	55.8
Kuwait	538	9.2	60.9	27.0	2.9	9.2	10.0	8.3
Latvia	564	64.7	32.6	2.4	0.4	64.7	70.6	60.7
Lithuania	577	65.4	30.8	2.8	1.0	65.4	60.2	70.7
Morocco	553	19.5	42.1	30.6	7.8	19.5	19.9	18.7
Netherlands	471	80.1	18.6	1.0	0.3	80.1	80.1	80.2
New Zealand	690	68.1	27.9	2.8	1.2	68.1	64.6	71.8
Norway	582	60.4	31.4	4.1	4.1	60.4	56.7	63.5
Qatar	997	12.5	63.1	21.2	3.2	12.5	12.2	12.7
Russian Federation	640	51.9	36.1	10.6	1.5	51.9	57.2	46.1
Scotland	554	64.3	29.9	4.1	1.8	64.3	64.8	63.8
Singapore	726	89.0	10.4	0.5	0.1	89.0	88.5	89.6
Slovak Republic	701	31.9	49.4	16.9	1.9	31.9	31.7	32.0
Slovenia	612	74.9	20.3	2.5	2.3	74.9	74.3	75.4
Sweden	666	47.5	42.5	7.5	2.5	47.5	54.1	41.2
Tunisia	585	3.1	55.8	33.1	8.0	3.1	2.4	3.7
Ukraine	607	15.5	50.9	32.6	1.0	15.5	16.9	14.1
United States	1135	52.6	44.6	1.5	1.4	52.6	50.2	54.9
Yemen	836	1.3	52.7	39.7	6.3	1.3	0.5	2.0
International Avg.	637	50.2	34.9	12.1	2.8	50.2	49.7	50.6
Alberta, Canada	583	60.9	33.7	4.6	0.8	60.9	56.9	65.0
British Columbia, Canada	589	54.0	39.8	4.5	1.7	54.0	49.7	58.0
Dubai, UAE	429	39.3	42.9	16.7	1.1	39.3	46.8	32.4
Massachusetts, US	252	60.1	36.8	1.0	2.1	60.1	56.5	63.8
Minnesota, US	262	62.5	35.9	1.1	0.5	62.5	60.1	65.1
Ontario, Canada	505	67.8	27.8	2.2	2.2	67.8	67.3	68.4
Quebec, Canada	531	72.9	21.0	3.9	2.1	72.9	66.3	79.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041155 - M06\_11)  
 Label: How far does Ruth walk  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	21.1	25.0	29.4	21.1	11.8	4.5	8.2	21.9	20.4
Armenia	581	51.2	25.3	5.9	51.2	6.7	8.9	2.0	47.3	55.3
Australia	589	57.8	24.4	12.5	57.8	2.0	1.2	2.1	56.2	59.2
Austria	696	51.9	30.9	10.4	51.9	4.9	1.4	0.5	44.8	58.5
Chinese Taipei	593	88.5	3.9	1.0	88.5	6.2	0.3	0.0	87.8	89.0
Colombia	694	22.3	34.8	20.1	22.3	6.9	2.2	13.7	21.3	23.5
Czech Republic	593	55.6	30.4	8.6	55.6	1.7	1.2	2.4	48.3	61.3
Denmark	510	53.5	21.7	14.7	53.5	3.3	3.9	2.9	49.9	57.1
El Salvador	590	26.2	38.3	17.0	26.2	6.7	3.5	8.3	27.7	24.9
England	616	58.4	24.6	9.8	58.4	4.6	1.9	0.7	57.7	59.1
Georgia	580	44.8	20.8	18.4	44.8	3.7	2.5	9.7	42.6	46.7
Germany	748	54.8	24.6	12.5	54.8	3.4	2.9	1.8	51.0	58.1
Hong Kong SAR	538	77.8	5.2	2.8	77.8	13.9	0.3	0.0	76.3	79.0
Hungary	579	50.4	32.3	10.0	50.4	2.6	2.0	2.8	46.6	53.9
Iran, Islamic Rep. of	544	35.2	27.1	18.6	35.2	9.6	2.1	7.4	41.9	30.0
Italy	634	49.2	30.8	11.4	49.2	2.6	2.7	3.2	42.5	55.2
Japan	644	57.8	7.4	10.0	57.8	23.0	1.0	0.8	55.1	60.3
Kazakhstan	570	68.4	14.9	8.8	68.4	7.0	0.8	0.0	72.7	64.4
Kuwait	538	22.1	37.1	19.0	22.1	11.0	6.4	4.4	17.7	27.1
Latvia	564	54.0	23.6	10.0	54.0	9.9	2.0	0.5	50.7	56.2
Lithuania	577	62.7	19.7	8.8	62.7	6.1	1.8	1.0	59.0	66.6
Morocco	540	18.0	35.0	18.5	18.0	10.0	8.9	9.5	16.2	19.7
Netherlands	471	68.2	15.8	14.0	68.2	1.6	0.0	0.3	65.7	71.0
New Zealand	690	50.5	27.4	18.1	50.5	0.8	2.0	1.2	45.3	55.8
Norway	582	43.7	28.9	16.8	43.7	3.5	2.7	4.4	36.7	49.7
Qatar	997	14.1	46.4	16.9	14.1	14.4	4.3	3.9	12.3	16.1
Russian Federation	640	63.6	18.5	6.1	63.6	8.1	2.2	1.5	64.6	62.6
Scotland	554	37.2	28.7	26.3	37.2	3.9	1.7	2.1	36.9	37.5
Singapore	726	64.6	22.4	9.4	64.6	2.6	0.8	0.1	67.5	61.8
Slovak Republic	701	62.6	23.8	7.7	62.6	3.0	0.6	2.3	58.7	66.3
Slovenia	612	52.7	21.7	18.1	52.7	3.6	1.2	2.6	50.7	54.8
Sweden	666	61.4	16.0	13.5	61.4	3.3	3.0	2.7	57.0	65.7
Tunisia	585	30.6	32.4	12.5	30.6	6.8	8.6	9.2	30.5	30.7
Ukraine	607	39.4	35.0	16.7	39.4	6.3	1.4	1.2	32.7	46.5
United States	1135	42.2	39.3	13.0	42.2	2.3	1.7	1.5	40.1	44.2
Yemen	837	13.8	34.9	15.3	13.8	20.9	7.8	7.4	12.3	15.0
International Avg.	636	48.0	25.8	13.4	48.0	6.6	2.8	3.4	45.7	50.1
Alberta, Canada	583	49.6	30.6	16.7	49.6	0.6	1.6	0.9	45.7	53.7
British Columbia, Canada	589	45.7	33.1	15.1	45.7	1.5	2.4	2.2	42.3	48.8
Dubai, UAE	429	30.0	43.2	15.4	30.0	4.9	5.0	1.5	32.2	28.0
Massachusetts, US	252	55.9	28.4	10.2	55.9	1.7	1.6	2.1	57.7	54.1
Minnesota, US	262	50.8	32.8	12.6	50.8	2.1	1.2	0.5	43.7	58.6
Ontario, Canada	505	43.5	32.3	18.2	43.5	2.5	1.4	2.2	46.3	40.8
Quebec, Canada	531	50.0	30.6	13.4	50.0	1.4	2.5	2.2	49.9	50.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041284 - M06\_12)

Label: Identify the shapes

Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
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Algeria	606	4.0	12.4	62.0	12.4	9.3	16.4	4.0	5.3	2.6
Armenia	580	13.4	27.2	28.8	27.0	3.6	40.6	13.4	13.1	13.7
Australia	589	13.2	37.4	42.1	5.1	2.2	50.6	13.2	12.1	14.3
Austria	696	16.1	33.5	43.8	5.9	0.7	49.6	16.1	16.4	15.8
Chinese Taipei	593	20.9	41.9	37.2	0.0	0.0	62.8	20.9	23.3	19.0
Colombia	694	1.1	10.2	59.5	14.9	14.2	11.3	1.1	1.7	0.4
Czech Republic	593	13.6	33.5	37.7	12.6	2.6	47.1	13.6	12.6	14.4
Denmark	512	20.0	35.4	34.3	7.1	3.1	55.4	20.0	20.1	20.0
El Salvador	591	0.2	7.2	62.4	21.5	8.6	7.4	0.2	0.2	0.2
England	616	33.4	40.1	23.4	2.4	0.7	73.5	33.4	34.5	32.3
Georgia	580	3.3	18.4	42.6	25.9	9.8	21.7	3.3	5.3	1.5
Germany	748	20.5	33.1	37.6	6.5	2.2	53.6	20.5	24.1	17.6
Hong Kong SAR	538	35.3	35.7	27.9	1.1	0.0	71.0	35.3	33.2	37.1
Hungary	579	30.0	34.0	29.2	2.9	3.9	64.0	30.0	29.5	30.5
Iran, Islamic Rep. of	544	2.3	18.3	59.2	12.4	7.9	20.5	2.3	1.7	2.7
Italy	635	24.0	36.7	29.6	5.9	3.7	60.8	24.0	21.1	26.7
Japan	644	27.6	43.5	27.0	1.1	0.8	71.2	27.6	28.6	26.8
Kazakhstan	570	24.9	19.1	49.2	6.6	0.2	44.1	24.9	25.7	24.2
Kuwait	538	0.6	9.6	62.5	22.6	4.7	10.2	0.6	0.0	1.2
Latvia	564	17.8	36.2	41.8	3.1	1.2	54.0	17.8	22.0	15.1
Lithuania	577	15.9	42.0	36.5	3.4	2.2	57.9	15.9	16.4	15.4
Morocco	553	0.3	13.4	50.9	24.6	10.7	13.8	0.3	0.0	0.3
Netherlands	471	15.5	38.8	43.2	2.1	0.3	54.3	15.5	15.6	15.5
New Zealand	690	12.8	34.9	45.7	4.9	1.7	47.7	12.8	12.4	13.3
Norway	582	10.0	30.8	47.0	7.6	4.6	40.8	10.0	9.1	10.8
Qatar	997	0.2	9.1	66.3	20.1	4.3	9.3	0.2	0.0	0.4
Russian Federation	640	17.3	38.1	36.3	6.4	1.9	55.4	17.3	19.0	15.6
Scotland	554	19.9	37.4	34.3	5.3	3.1	57.3	19.9	19.7	20.1
Singapore	726	12.8	48.9	37.4	0.8	0.1	61.7	12.8	15.4	10.2
Slovak Republic	701	17.1	26.4	45.8	8.3	2.4	43.5	17.1	16.0	18.1
Slovenia	612	30.0	36.4	28.7	1.9	2.9	66.4	30.0	32.1	27.8
Sweden	666	12.8	37.2	37.8	8.9	3.3	50.0	12.8	12.5	13.0
Tunisia	585	2.1	16.0	60.8	11.3	9.8	18.1	2.1	2.4	1.8
Ukraine	607	5.5	21.9	58.4	12.8	1.3	27.4	5.5	6.4	4.5
United States	1135	11.6	37.7	46.3	2.6	1.8	49.3	11.6	10.4	12.7
Yemen	837	0.3	3.1	65.5	23.5	7.6	3.4	0.3	0.6	0.0
-----										
International Avg.	637	14.1	28.8	43.9	9.5	3.8	42.8	14.1	14.4	13.8
-----										
Alberta, Canada	583	16.1	41.0	37.6	4.3	1.0	57.1	16.1	16.4	15.8
British Columbia, Canada	589	17.6	34.4	39.2	5.8	3.1	51.9	17.6	15.0	19.9
Dubai, UAE	429	6.8	26.6	53.2	12.0	1.5	33.4	6.8	8.8	4.9
Massachusetts, US	252	24.1	39.3	32.6	1.5	2.5	63.4	24.1	25.9	22.2
Minnesota, US	262	19.7	40.1	36.7	2.9	0.5	59.8	19.7	22.1	17.1
Ontario, Canada	505	20.8	40.9	32.5	3.7	2.2	61.7	20.8	24.1	17.7
Quebec, Canada	531	23.4	41.6	28.3	4.0	2.8	65.0	23.4	17.1	30.1
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M041335 - M06\_13)  
 Label: Class with fewest choose blue  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	591	44.7	7.1	44.7	20.2	15.0	2.0	11.1	46.4	43.0
Armenia	576	58.8	9.9	58.8	12.7	5.9	7.1	5.5	65.0	52.3
Australia	589	70.9	0.5	70.9	1.8	22.3	1.8	2.8	68.7	72.8
Austria	696	89.4	1.1	89.4	2.9	2.8	2.9	0.9	90.4	88.5
Chinese Taipei	593	89.3	1.8	89.3	3.0	5.8	0.1	0.0	90.0	88.7
Colombia	694	46.2	5.6	46.2	9.2	19.1	3.7	16.2	45.5	47.0
Czech Republic	593	78.1	2.4	78.1	3.9	9.3	2.2	4.1	80.1	76.5
Denmark	511	80.6	0.8	80.6	2.5	10.1	2.3	3.8	79.0	82.1
El Salvador	590	26.0	6.1	26.0	13.5	40.9	3.2	10.3	20.8	30.6
England	616	84.6	1.2	84.6	3.0	9.3	1.2	0.8	87.1	82.1
Georgia	580	47.6	4.8	47.6	13.6	19.0	3.8	11.3	44.8	50.0
Germany	748	87.7	0.6	87.7	3.6	1.9	2.9	3.3	87.5	87.8
Hong Kong SAR	538	90.8	1.8	90.8	3.6	3.2	0.5	0.0	95.8	86.6
Hungary	579	84.2	1.3	84.2	3.2	3.2	3.3	4.7	85.5	83.0
Iran, Islamic Rep. of	544	61.6	5.8	61.6	10.6	9.7	2.6	9.7	72.4	53.0
Italy	632	78.0	1.7	78.0	5.6	8.8	1.6	4.2	78.0	77.9
Japan	644	86.7	0.5	86.7	3.9	6.7	1.2	1.1	88.8	84.7
Kazakhstan	570	84.2	3.0	84.2	5.5	6.8	0.1	0.3	87.8	80.9
Kuwait	538	44.8	8.2	44.8	12.5	23.0	5.2	6.4	52.0	36.8
Latvia	564	86.7	1.1	86.7	5.4	4.5	0.9	1.3	90.0	84.6
Lithuania	577	86.1	1.1	86.1	5.3	3.2	1.7	2.6	89.3	82.8
Morocco	533	33.8	9.1	33.8	21.1	16.4	5.6	14.1	37.7	29.1
Netherlands	471	83.1	0.7	83.1	5.4	9.6	0.5	0.7	83.2	83.0
New Zealand	690	63.7	2.2	63.7	4.8	24.7	2.9	1.7	64.9	62.5
Norway	580	68.3	1.4	68.3	4.9	17.7	2.7	5.1	71.4	65.6
Qatar	997	33.5	10.6	33.5	14.4	30.9	4.8	5.9	33.3	33.7
Russian Federation	640	82.9	1.7	82.9	5.3	5.6	2.1	2.4	86.7	78.7
Scotland	554	77.2	1.1	77.2	2.4	14.5	1.6	3.2	78.1	76.3
Singapore	726	91.8	1.1	91.8	3.5	3.4	0.0	0.1	92.7	91.0
Slovak Republic	701	81.5	2.6	81.5	4.5	6.8	1.9	2.8	81.7	81.3
Slovenia	612	85.0	1.1	85.0	4.3	4.8	1.6	3.3	86.3	83.7
Sweden	666	87.7	0.7	87.7	3.3	3.6	0.6	4.1	89.9	85.5
Tunisia	585	39.4	6.0	39.4	17.1	16.1	10.0	11.5	40.2	38.7
Ukraine	607	76.2	2.8	76.2	7.5	10.0	1.9	1.7	81.6	70.5
United States	1135	86.9	1.4	86.9	2.8	5.1	1.7	2.2	85.4	88.3
Yemen	837	24.9	11.1	24.9	23.2	24.7	6.9	9.2	28.6	21.9
International Avg.	636	70.1	3.3	70.1	7.5	11.8	2.6	4.7	71.9	68.4
Alberta, Canada	583	86.2	2.4	86.2	1.8	6.6	2.0	1.0	87.7	84.6
British Columbia, Canada	589	86.5	0.7	86.5	3.0	5.1	1.4	3.4	87.0	86.1
Dubai, UAE	429	66.4	2.7	66.4	6.2	19.2	2.9	2.6	70.0	63.0
Massachusetts, US	252	92.6	0.0	92.6	1.4	1.8	1.4	2.8	94.7	90.3
Minnesota, US	262	92.5	0.7	92.5	1.0	3.5	1.2	0.9	92.4	92.7
Ontario, Canada	505	87.6	0.6	87.6	1.9	5.6	1.6	2.5	87.4	87.8
Quebec, Canada	531	79.0	1.1	79.0	5.7	8.1	2.7	3.3	81.4	76.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041184 - M06\_14)  
 Label: Comparing pie chart with bar chart  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	560	38.5	38.5	13.4	10.5	6.3	18.5	12.9	39.2	37.8
Armenia	552	44.2	44.2	11.2	5.2	5.7	27.7	6.0	48.7	39.2
Australia	589	80.3	80.3	7.6	2.4	2.9	3.9	2.9	80.4	80.1
Austria	696	75.8	75.8	5.5	2.9	2.8	10.7	2.2	77.4	74.4
Chinese Taipei	593	85.9	85.9	4.8	1.5	3.2	4.4	0.1	88.5	83.8
Colombia	694	45.3	45.3	9.8	6.8	4.4	15.7	17.9	44.8	45.8
Czech Republic	593	63.7	63.7	8.4	2.8	3.3	16.8	5.0	61.0	65.7
Denmark	507	78.3	78.3	3.4	0.8	2.4	9.8	5.3	78.2	78.4
El Salvador	587	39.8	39.8	15.7	9.4	7.7	15.4	11.9	39.3	40.3
England	616	81.5	81.5	5.6	3.2	4.3	4.5	0.9	83.6	79.4
Georgia	580	50.4	50.4	10.0	5.1	6.8	15.2	12.5	53.3	47.8
Germany	748	76.2	76.2	5.6	2.7	2.3	9.2	4.0	76.3	76.1
Hong Kong SAR	538	89.1	89.1	3.5	2.1	3.7	1.3	0.2	89.4	88.9
Hungary	579	72.8	72.8	6.8	2.3	1.9	9.9	6.2	75.1	70.7
Iran, Islamic Rep. of	544	49.2	49.2	13.9	5.9	3.9	15.6	11.5	59.1	41.4
Italy	623	70.4	70.4	7.2	2.8	2.8	11.2	5.6	68.3	72.3
Japan	644	89.5	89.5	4.4	0.6	2.0	1.9	1.7	91.2	87.9
Kazakhstan	570	83.9	83.9	9.8	2.6	2.6	0.8	0.3	83.7	84.0
Kuwait	538	38.0	38.0	11.2	9.5	9.1	22.9	9.3	43.8	31.5
Latvia	564	76.4	76.4	7.4	4.1	3.3	7.0	1.8	83.3	71.9
Lithuania	577	72.2	72.2	7.8	4.2	3.1	9.4	3.5	77.8	66.4
Morocco	515	23.1	23.1	7.5	11.6	7.5	33.4	16.9	21.6	24.1
Netherlands	471	81.3	81.3	4.4	2.3	4.7	6.3	1.0	81.7	80.9
New Zealand	690	73.3	73.3	9.4	4.9	2.1	7.3	3.1	71.4	75.2
Norway	582	62.5	62.5	9.2	4.3	3.4	14.3	6.3	64.1	61.1
Qatar	997	31.8	31.8	12.4	9.3	10.4	28.3	8.0	33.5	29.9
Russian Federation	640	82.0	82.0	2.7	4.1	3.1	4.3	3.7	83.8	80.2
Scotland	554	67.9	67.9	8.9	4.9	5.9	8.2	4.2	68.9	66.8
Singapore	726	88.2	88.2	6.7	1.5	2.5	0.9	0.1	88.1	88.4
Slovak Republic	701	66.3	66.3	9.8	4.1	1.9	13.3	4.5	65.4	67.1
Slovenia	612	73.6	73.6	6.7	3.1	3.1	9.4	4.1	75.0	72.2
Sweden	666	67.1	67.1	3.2	2.0	0.9	22.6	4.2	71.2	63.1
Tunisia	585	23.7	23.7	8.0	8.6	6.6	36.6	16.6	27.1	20.9
Ukraine	607	65.6	65.6	8.0	8.5	4.5	11.0	2.4	66.8	64.4
United States	1135	80.4	80.4	6.6	4.1	3.0	2.9	2.8	80.1	80.7
Yemen	837	17.5	17.5	9.0	15.1	11.3	34.7	12.4	17.9	17.2
International Avg.	634	64.0	64.0	7.9	4.9	4.3	12.9	5.9	65.5	62.7
Alberta, Canada	583	81.5	81.5	7.8	2.6	2.7	3.4	1.9	82.3	80.7
British Columbia, Canada	589	74.6	74.6	7.3	3.2	4.7	6.5	3.8	76.1	73.2
Dubai, UAE	429	59.1	59.1	14.3	5.3	4.0	14.3	2.9	63.4	55.1
Massachusetts, US	252	88.3	88.3	3.2	1.3	1.3	2.1	3.8	90.9	85.7
Minnesota, US	262	87.0	87.0	3.8	1.8	4.2	1.8	1.4	89.3	84.4
Ontario, Canada	505	83.7	83.7	4.2	3.7	1.8	3.5	3.1	85.1	82.3
Quebec, Canada	531	75.7	75.7	6.5	1.6	2.3	9.5	4.5	74.9	76.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031029 - M07\_01)  
 Label: 4/5 minus 1/5  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	577	50.4	50.4	13.7	14.0	13.2	7.4	1.3	52.2	48.6
Armenia	582	82.3	82.3	3.2	2.9	3.2	7.0	1.3	82.2	82.4
Australia	577	60.0	60.0	9.2	3.7	21.4	5.4	0.2	56.9	62.6
Austria	696	47.0	47.0	9.2	3.1	20.8	19.8	0.0	48.4	45.7
Chinese Taipei	586	96.6	96.6	0.9	0.0	0.8	1.7	0.0	97.4	95.8
Colombia	695	44.9	44.9	11.5	10.4	16.9	14.2	2.0	42.6	47.8
Czech Republic	609	23.7	23.7	8.8	5.3	30.3	31.9	0.0	23.6	23.8
Denmark	511	37.7	37.7	8.6	4.4	36.9	12.0	0.3	35.2	40.0
El Salvador	600	32.3	32.3	20.7	16.7	11.6	17.6	1.0	32.5	32.2
England	616	61.0	61.0	10.0	3.2	21.5	4.4	0.0	63.8	58.4
Georgia	575	45.9	45.9	4.8	2.9	33.0	12.6	0.9	44.8	46.7
Germany	743	32.0	32.0	13.5	5.5	30.9	18.1	0.0	29.4	34.2
Hong Kong SAR	532	96.9	96.9	1.1	0.1	0.9	0.9	0.0	97.5	96.5
Hungary	571	48.9	48.9	12.0	4.2	22.7	12.0	0.2	50.7	47.3
Iran, Islamic Rep. of	548	42.0	42.0	13.4	10.2	16.0	18.2	0.3	50.7	34.6
Italy	628	61.2	61.2	6.8	1.6	25.9	4.2	0.3	63.1	59.4
Japan	646	76.3	76.3	2.2	0.6	8.5	12.3	0.0	77.5	75.4
Kazakhstan	566	72.2	72.2	6.0	3.0	18.5	0.4	0.0	74.3	70.1
Kuwait	531	48.7	48.7	13.4	8.9	12.9	13.6	2.5	55.8	41.2
Latvia	570	57.3	57.3	4.3	2.9	30.6	4.8	0.1	58.2	56.5
Lithuania	576	45.6	45.6	8.4	2.8	36.3	6.9	0.0	41.9	49.1
Morocco	521	15.9	15.9	23.4	27.9	10.4	20.7	1.6	15.3	16.4
Netherlands	473	64.6	64.6	9.4	1.3	23.0	1.9	0.0	63.2	66.0
New Zealand	700	60.6	60.6	11.7	3.9	16.4	7.2	0.1	59.4	61.7
Norway	577	45.4	45.4	14.0	4.5	23.0	12.5	0.5	47.2	43.3
Qatar	994	34.1	34.1	21.1	12.8	18.8	12.3	1.0	32.6	35.7
Russian Federation	645	56.0	56.0	5.1	3.8	30.8	4.2	0.1	60.0	51.9
Scotland	555	45.1	45.1	11.9	8.2	22.2	12.1	0.7	42.4	47.7
Singapore	724	96.9	96.9	1.5	0.2	1.0	0.5	0.0	97.1	96.7
Slovak Republic	714	37.6	37.6	12.7	5.8	31.3	12.7	0.0	39.2	35.9
Slovenia	611	44.1	44.1	13.2	6.9	24.1	11.7	0.0	43.4	44.8
Sweden	661	37.1	37.1	12.1	6.3	23.7	20.0	0.9	37.7	36.5
Tunisia	588	14.6	14.6	14.1	24.3	10.9	34.7	1.5	15.0	14.2
Ukraine	615	35.7	35.7	9.7	5.6	44.2	4.7	0.0	38.7	32.9
United States	1133	83.9	83.9	3.1	1.3	10.6	1.1	0.0	84.6	83.2
Yemen	819	41.7	41.7	14.4	19.6	8.7	12.8	2.7	45.1	38.9
International Avg.	635	52.1	52.1	10.0	6.6	19.8	11.0	0.5	52.8	51.5
Alberta, Canada	586	55.3	55.3	13.6	4.5	22.2	4.0	0.3	52.0	58.6
British Columbia, Canada	603	50.1	50.1	12.9	3.6	24.3	9.0	0.1	52.1	48.3
Dubai, UAE	428	52.2	52.2	10.0	4.4	25.4	8.0	0.0	56.2	48.3
Massachusetts, US	249	86.7	86.7	2.8	1.2	9.4	0.0	0.0	83.3	90.0
Minnesota, US	268	76.8	76.8	6.5	1.0	13.1	2.6	0.0	76.5	77.1
Ontario, Canada	498	50.8	50.8	14.4	5.2	23.4	6.1	0.0	51.0	50.6
Quebec, Canada	526	51.7	51.7	13.5	3.1	22.8	8.9	0.0	50.5	53.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031030 - M07\_02)  
 Label: 12.36 minus 9.7  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	603	24.2	6.7	51.2	15.9	2.0	24.2	24.0	24.5
Armenia	582	31.7	18.1	28.5	20.3	1.3	31.7	34.4	29.0
Australia	577	10.6	38.2	43.1	7.9	0.2	10.6	9.8	11.4
Austria	696	1.6	42.7	34.3	21.4	0.0	1.6	1.1	2.1
Chinese Taipei	586	69.3	15.8	13.7	1.2	0.0	69.3	73.2	65.8
Colombia	695	7.0	3.3	68.0	19.1	2.5	7.0	6.2	8.1
Czech Republic	609	0.3	38.7	27.5	33.5	0.0	0.3	0.0	0.5
Denmark	511	13.9	40.6	37.5	7.6	0.3	13.9	16.0	11.9
El Salvador	600	2.3	4.5	61.8	30.3	1.1	2.3	2.5	2.0
England	616	20.3	29.7	43.3	6.7	0.0	20.3	20.5	20.2
Georgia	575	6.5	30.6	35.5	25.9	1.6	6.5	9.1	4.6
Germany	743	5.4	60.1	23.8	10.1	0.6	5.4	6.3	4.5
Hong Kong SAR	532	24.2	53.8	19.4	2.6	0.0	24.2	18.5	28.5
Hungary	571	2.1	35.4	39.1	23.2	0.2	2.1	2.1	2.1
Iran, Islamic Rep. of	548	0.9	5.1	53.7	39.8	0.5	0.9	1.6	0.3
Italy	629	50.0	7.5	37.1	5.0	0.3	50.0	52.8	47.4
Japan	646	28.1	28.8	40.1	2.8	0.2	28.1	28.3	28.0
Kazakhstan	566	34.5	31.4	33.1	1.0	0.0	34.5	30.7	38.2
Kuwait	531	0.0	3.7	61.1	32.5	2.7	0.0	0.0	0.0
Latvia	570	3.3	58.7	30.2	7.7	0.1	3.3	2.3	4.1
Lithuania	576	9.6	54.2	31.6	4.6	0.0	9.6	9.5	9.7
Morocco	547	13.9	3.5	51.6	29.5	1.5	13.9	14.7	12.1
Netherlands	473	2.1	60.8	31.5	5.5	0.0	2.1	0.9	3.5
New Zealand	700	4.2	36.3	49.1	10.2	0.2	4.2	2.3	5.9
Norway	577	1.4	42.2	42.2	13.7	0.5	1.4	1.0	1.7
Qatar	994	0.1	3.4	71.8	23.7	1.0	0.1	0.2	0.0
Russian Federation	645	9.2	49.8	34.9	6.0	0.1	9.2	12.1	6.2
Scotland	555	2.8	44.6	35.6	16.3	0.8	2.8	2.7	2.9
Singapore	724	81.5	2.3	16.2	0.0	0.0	81.5	83.5	79.3
Slovak Republic	714	6.2	35.4	35.4	23.1	0.0	6.2	6.2	6.1
Slovenia	611	0.3	37.1	46.7	15.9	0.0	0.3	0.0	0.6
Sweden	661	1.6	43.8	33.9	19.9	0.9	1.6	1.6	1.5
Tunisia	588	2.8	3.9	65.3	26.5	1.5	2.8	3.6	2.0
Ukraine	615	4.4	46.3	38.2	11.1	0.0	4.4	4.9	3.8
United States	1133	26.9	17.8	52.3	3.1	0.0	26.9	29.1	24.7
Yemen	819	3.0	3.4	62.9	27.9	2.7	3.0	3.9	2.3
International Avg.	637	14.1	28.8	41.1	15.3	0.6	14.1	14.3	13.8
Alberta, Canada	586	7.5	34.4	51.6	6.2	0.3	7.5	8.7	6.2
British Columbia, Canada	603	8.8	33.8	45.2	11.8	0.4	8.8	11.5	6.4
Dubai, UAE	428	11.7	18.5	58.0	11.9	0.0	11.7	10.7	12.7
Massachusetts, US	249	32.2	27.9	37.1	2.8	0.0	32.2	32.3	32.1
Minnesota, US	268	28.7	20.9	47.1	3.3	0.0	28.7	31.8	25.1
Ontario, Canada	498	7.7	33.4	52.0	6.5	0.4	7.7	7.6	7.7
Quebec, Canada	526	11.0	36.0	45.4	7.5	0.1	11.0	11.6	10.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031332 - M07\_03)  
 Label: The number closest in size to 10  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	573	52.6	17.4	52.6	22.5	3.3	1.7	2.4	51.0	54.3
Armenia	580	48.2	24.2	48.2	13.6	1.9	10.5	1.6	50.0	46.4
Australia	577	62.8	24.5	62.8	10.8	0.7	0.9	0.2	53.9	70.1
Austria	696	71.6	13.8	71.6	10.8	2.5	1.4	0.0	65.5	77.5
Chinese Taipei	586	79.0	15.0	79.0	4.5	1.1	0.3	0.0	76.7	81.1
Colombia	695	38.7	45.7	38.7	7.2	2.7	2.7	3.0	43.2	33.1
Czech Republic	609	67.2	15.0	67.2	12.0	1.6	4.2	0.0	61.2	71.6
Denmark	512	85.5	7.4	85.5	5.1	0.6	0.9	0.4	80.0	90.8
El Salvador	599	54.7	27.7	54.7	10.7	3.7	2.1	1.1	54.1	55.2
England	616	69.7	17.6	69.7	9.3	2.7	0.7	0.0	63.7	75.0
Georgia	575	46.0	26.2	46.0	14.7	4.8	6.7	1.7	46.3	45.7
Germany	743	85.6	6.4	85.6	6.6	0.3	0.7	0.6	81.9	88.6
Hong Kong SAR	532	82.4	7.6	82.4	7.3	2.5	0.2	0.0	79.4	84.6
Hungary	571	52.1	23.0	52.1	21.6	1.2	1.8	0.2	47.0	56.7
Iran, Islamic Rep. of	548	38.8	33.5	38.8	14.0	5.9	7.1	0.6	39.9	37.9
Italy	627	72.9	15.0	72.9	8.7	2.8	0.3	0.3	64.9	80.2
Japan	646	85.3	10.5	85.3	2.5	1.3	0.2	0.2	81.8	88.5
Kazakhstan	566	70.0	22.0	70.0	7.5	0.3	0.2	0.0	69.4	70.6
Kuwait	531	21.8	32.6	21.8	23.0	14.2	5.5	2.9	20.8	22.9
Latvia	570	70.9	18.1	70.9	7.1	2.5	1.3	0.1	68.6	72.9
Lithuania	576	66.4	21.6	66.4	9.2	2.1	0.7	0.0	58.8	73.5
Morocco	530	39.6	26.9	39.6	20.3	6.4	4.8	2.0	42.6	35.7
Netherlands	473	87.8	6.3	87.8	5.1	0.5	0.2	0.0	85.5	90.4
New Zealand	700	58.0	26.3	58.0	9.6	3.7	2.1	0.2	49.7	65.7
Norway	577	61.5	21.9	61.5	13.6	2.2	0.4	0.5	52.1	71.6
Qatar	994	23.6	36.9	23.6	25.5	9.6	3.3	1.1	22.9	24.4
Russian Federation	645	74.0	16.0	74.0	7.9	0.8	1.1	0.1	72.6	75.5
Scotland	555	62.0	23.9	62.0	9.0	1.0	3.1	1.0	55.0	69.0
Singapore	724	83.4	9.3	83.4	5.7	1.6	0.0	0.0	82.5	84.3
Slovak Republic	713	65.0	17.9	65.0	11.8	1.9	3.5	0.0	58.5	71.7
Slovenia	611	54.9	25.9	54.9	13.4	3.5	2.3	0.0	50.6	59.2
Sweden	661	75.0	11.6	75.0	10.3	1.3	0.9	0.9	71.5	78.6
Tunisia	588	34.1	28.1	34.1	19.3	6.2	10.3	1.9	34.3	34.0
Ukraine	615	47.7	22.8	47.7	21.0	7.3	1.2	0.0	47.5	47.9
United States	1133	56.8	33.1	56.8	8.1	1.2	0.8	0.0	49.7	63.6
Yemen	823	17.3	42.2	17.3	23.4	6.4	7.3	3.4	16.6	17.8
International Avg.	635	60.1	21.5	60.1	12.0	3.1	2.5	0.7	56.9	63.0
Alberta, Canada	586	58.6	27.0	58.6	10.5	1.0	2.6	0.3	52.2	64.9
British Columbia, Canada	603	64.5	23.3	64.5	8.2	1.2	2.5	0.4	55.6	72.5
Dubai, UAE	428	43.9	32.9	43.9	16.5	3.3	3.5	0.0	34.1	53.4
Massachusetts, US	249	69.4	21.0	69.4	8.5	0.4	0.7	0.0	59.6	78.8
Minnesota, US	268	66.0	26.2	66.0	7.8	0.0	0.0	0.0	55.9	77.4
Ontario, Canada	498	62.4	24.0	62.4	10.9	1.4	1.0	0.4	57.7	66.9
Quebec, Canada	526	64.6	23.9	64.6	8.5	0.9	2.0	0.1	56.8	73.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031098 - M07\_04)  
 Label: Next number in the pattern 2,4,8,16  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	574	28.0	30.2	19.8	28.0	13.7	5.8	2.6	26.6	29.4
Armenia	579	58.1	26.5	4.8	58.1	1.7	6.0	2.8	55.6	60.5
Australia	577	54.3	40.6	2.0	54.3	0.7	2.1	0.2	47.6	59.8
Austria	696	44.3	49.3	2.6	44.3	1.0	2.9	0.0	32.9	55.3
Chinese Taipei	586	57.0	32.5	9.0	57.0	0.7	0.7	0.0	46.7	66.2
Colombia	695	14.4	46.4	16.9	14.4	12.9	6.2	3.1	10.5	19.3
Czech Republic	609	39.8	47.8	5.1	39.8	1.8	5.5	0.0	28.6	47.9
Denmark	512	64.8	27.0	3.8	64.8	0.1	3.6	0.6	58.6	70.9
El Salvador	600	15.9	59.7	12.6	15.9	5.1	5.6	1.1	12.2	19.4
England	616	63.2	30.1	4.7	63.2	0.6	1.4	0.0	58.8	67.0
Georgia	575	45.9	31.5	9.3	45.9	4.5	7.0	1.9	35.3	53.4
Germany	743	69.0	25.1	2.5	69.0	0.3	2.5	0.6	64.2	73.0
Hong Kong SAR	532	73.3	20.8	4.7	73.3	1.0	0.2	0.0	67.3	77.9
Hungary	571	59.6	31.3	5.3	59.6	0.2	3.4	0.2	58.7	60.3
Iran, Islamic Rep. of	548	21.2	42.7	15.5	21.2	9.2	10.6	0.8	14.6	26.9
Italy	629	44.6	48.2	3.8	44.6	1.4	1.7	0.3	37.3	51.4
Japan	646	60.2	33.6	4.1	60.2	1.2	0.7	0.2	49.0	70.2
Kazakhstan	566	73.4	22.6	3.3	73.4	0.5	0.1	0.0	71.3	75.5
Kuwait	531	18.2	44.1	16.3	18.2	10.7	7.7	3.0	11.7	25.0
Latvia	570	57.6	37.5	2.6	57.6	0.3	1.9	0.1	49.4	64.5
Lithuania	576	57.5	36.2	4.1	57.5	1.0	1.1	0.0	51.1	63.6
Morocco	528	25.0	28.8	19.0	25.0	15.0	10.2	2.1	26.5	23.2
Netherlands	473	83.0	14.5	1.7	83.0	0.6	0.2	0.0	78.8	87.5
New Zealand	700	52.5	38.6	4.6	52.5	1.6	2.3	0.2	44.9	59.6
Norway	577	49.0	43.1	3.3	49.0	1.7	2.2	0.6	41.0	57.7
Qatar	994	17.1	43.9	20.9	17.1	12.5	4.4	1.2	16.8	17.4
Russian Federation	645	62.2	32.2	2.8	62.2	1.0	1.7	0.1	57.7	66.8
Scotland	555	46.3	49.0	1.6	46.3	0.1	1.9	1.0	36.6	56.0
Singapore	724	71.4	23.7	4.4	71.4	0.3	0.1	0.0	70.3	72.7
Slovak Republic	713	49.1	42.2	4.4	49.1	1.4	2.9	0.0	45.1	53.2
Slovenia	611	32.0	58.5	6.1	32.0	1.1	2.3	0.0	23.5	40.4
Sweden	661	58.0	31.0	5.6	58.0	1.3	3.3	0.9	55.2	60.9
Tunisia	588	26.6	29.4	20.1	26.6	9.0	12.0	2.9	30.0	23.5
Ukraine	615	40.6	47.1	7.8	40.6	2.3	2.3	0.0	37.3	43.7
United States	1133	60.1	35.4	2.9	60.1	0.9	0.7	0.0	55.6	64.6
Yemen	824	24.3	20.9	26.5	24.3	17.4	7.1	3.8	22.0	26.1
International Avg.	635	47.7	36.2	7.9	47.7	3.7	3.6	0.8	42.5	52.5
Alberta, Canada	586	48.8	46.0	2.3	48.8	0.0	2.6	0.3	41.2	56.2
British Columbia, Canada	603	49.8	44.8	2.7	49.8	0.5	1.9	0.4	40.0	58.5
Dubai, UAE	428	34.3	50.1	8.2	34.3	4.3	3.2	0.0	36.6	32.0
Massachusetts, US	249	81.5	17.7	0.8	81.5	0.0	0.0	0.0	76.7	86.1
Minnesota, US	268	71.2	27.6	0.8	71.2	0.4	0.1	0.0	67.1	75.8
Ontario, Canada	498	53.1	38.4	6.2	53.1	0.4	1.5	0.4	49.1	56.9
Quebec, Canada	526	54.2	38.1	2.0	54.2	0.9	4.6	0.2	47.7	61.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031254 - M07\_05)  
 Label: Number of boxes can fit on a shelf  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	554	32.8	16.4	32.8	17.8	22.3	8.0	2.7	30.8	34.9
Armenia	567	52.2	9.6	52.2	9.2	9.0	17.1	2.9	51.9	52.5
Australia	577	46.7	18.6	46.7	14.9	13.6	6.0	0.2	39.3	52.7
Austria	696	57.7	14.4	57.7	9.1	9.7	9.0	0.0	55.7	59.7
Chinese Taipei	586	76.7	12.5	76.7	3.4	5.6	1.8	0.0	74.1	79.1
Colombia	695	22.2	20.2	22.2	25.7	18.0	9.3	4.5	21.2	23.5
Czech Republic	609	58.5	22.9	58.5	6.7	4.8	7.1	0.0	52.2	63.0
Denmark	512	43.2	16.6	43.2	15.7	11.2	12.5	0.8	45.0	41.4
El Salvador	600	19.5	19.9	19.5	33.9	17.4	7.9	1.5	18.4	20.6
England	616	56.4	13.7	56.4	11.4	11.1	7.5	0.0	58.9	54.1
Georgia	575	51.4	13.5	51.4	12.5	8.1	12.2	2.3	43.3	57.2
Germany	743	59.7	13.8	59.7	11.1	9.6	5.1	0.7	58.2	60.8
Hong Kong SAR	532	81.3	10.7	81.3	2.8	3.9	1.3	0.0	78.0	83.9
Hungary	571	61.6	15.2	61.6	11.6	7.1	4.4	0.2	65.0	58.6
Iran, Islamic Rep. of	548	33.5	18.3	33.5	16.3	18.9	11.9	1.1	32.2	34.7
Italy	627	52.3	16.3	52.3	11.3	13.7	6.1	0.3	49.0	55.4
Japan	646	67.3	5.2	67.3	11.6	13.1	2.7	0.2	63.1	71.0
Kazakhstan	566	70.5	13.3	70.5	9.7	5.9	0.5	0.0	70.6	70.5
Kuwait	531	18.7	16.8	18.7	25.7	23.3	11.8	3.8	18.1	19.3
Latvia	570	72.6	12.7	72.6	5.6	4.8	4.1	0.3	75.4	70.2
Lithuania	576	77.5	9.5	77.5	4.3	6.1	2.6	0.0	76.4	78.6
Morocco	516	27.7	15.8	27.7	27.1	13.5	13.0	2.8	27.4	27.2
Netherlands	473	61.2	18.7	61.2	7.6	9.2	3.1	0.0	59.9	62.7
New Zealand	700	44.3	19.0	44.3	19.6	10.6	6.3	0.2	39.6	48.7
Norway	577	37.4	28.5	37.4	17.6	8.4	7.4	0.8	33.0	42.2
Qatar	994	28.6	16.8	28.6	26.9	17.2	9.2	1.3	31.3	25.6
Russian Federation	645	79.1	8.0	79.1	6.7	4.4	1.7	0.1	80.2	78.0
Scotland	555	39.1	22.9	39.1	13.9	11.0	12.2	1.0	35.6	42.6
Singapore	724	77.4	7.8	77.4	5.3	9.1	0.3	0.0	80.5	74.1
Slovak Republic	713	59.6	20.7	59.6	11.0	2.9	5.8	0.0	57.7	61.6
Slovenia	611	59.9	21.1	59.9	9.3	6.0	3.8	0.0	58.0	61.7
Sweden	661	31.8	29.4	31.8	14.9	11.5	11.5	0.9	31.6	32.1
Tunisia	588	27.5	11.8	27.5	17.6	16.8	23.1	3.3	29.4	25.7
Ukraine	615	60.0	10.4	60.0	15.1	10.1	4.4	0.0	57.7	62.1
United States	1133	56.6	18.4	56.6	11.6	12.0	1.4	0.0	55.7	57.5
Yemen	824	22.7	17.0	22.7	22.8	11.6	21.9	3.9	23.6	22.0
International Avg.	634	50.7	16.0	50.7	13.8	10.9	7.6	1.0	49.4	51.8
Alberta, Canada	586	43.4	26.1	43.4	15.2	10.5	4.5	0.3	42.9	44.0
British Columbia, Canada	603	41.9	20.7	41.9	15.3	14.9	6.8	0.4	36.7	46.7
Dubai, UAE	428	33.6	20.2	33.6	22.6	13.4	9.6	0.5	32.9	34.4
Massachusetts, US	249	73.4	14.7	73.4	3.7	7.5	0.7	0.0	68.2	78.4
Minnesota, US	268	62.6	16.5	62.6	11.1	9.5	0.4	0.0	61.4	64.0
Ontario, Canada	498	41.4	24.6	41.4	18.3	12.9	2.3	0.4	40.5	42.3
Quebec, Canada	526	49.9	16.7	49.9	10.4	13.9	8.8	0.2	44.4	56.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031038 - M07\_06)  
 Label: Rita, Ina, and Lana arrange 3 tiles  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	570	49.9	9.0	16.5	17.8	49.9	3.9	2.9	52.6	47.1
Armenia	586	66.1	6.6	6.1	5.8	66.1	12.1	3.3	70.2	62.1
Australia	577	72.0	7.2	10.0	7.1	72.0	3.4	0.3	72.7	71.5
Austria	696	82.0	4.1	5.9	4.6	82.0	3.4	0.0	82.9	81.2
Chinese Taipei	586	93.2	1.5	1.4	2.7	93.2	1.1	0.0	95.3	91.4
Colombia	695	51.6	13.1	14.5	11.3	51.6	4.4	5.1	51.3	52.1
Czech Republic	609	69.0	11.4	7.1	7.7	69.0	4.8	0.0	67.8	69.9
Denmark	512	83.9	3.1	6.9	2.2	83.9	3.1	0.8	86.8	81.1
El Salvador	599	37.0	16.7	18.1	20.9	37.0	5.3	2.1	41.8	32.3
England	616	75.8	5.3	8.7	7.6	75.8	2.6	0.0	77.7	74.1
Georgia	575	64.4	8.3	7.0	13.4	64.4	4.7	2.3	71.1	59.5
Germany	743	79.1	3.7	6.7	8.2	79.1	1.6	0.7	81.5	77.0
Hong Kong SAR	532	85.8	2.7	6.7	4.0	85.8	0.8	0.0	87.7	84.3
Hungary	571	75.0	5.9	8.8	7.4	75.0	2.6	0.3	75.8	74.2
Iran, Islamic Rep. of	548	56.0	7.8	9.0	18.0	56.0	7.9	1.4	60.7	51.9
Italy	626	72.4	5.0	13.2	6.3	72.4	2.8	0.3	72.6	72.3
Japan	646	88.0	3.2	5.4	2.9	88.0	0.3	0.2	87.9	88.1
Kazakhstan	566	81.1	5.9	5.7	7.0	81.1	0.4	0.0	83.9	78.3
Kuwait	531	41.7	9.1	19.9	14.9	41.7	10.6	3.8	47.4	35.6
Latvia	570	82.5	4.3	6.3	6.2	82.5	0.4	0.3	85.7	79.7
Lithuania	576	78.9	4.5	4.4	11.0	78.9	1.2	0.0	82.5	75.5
Morocco	533	38.9	7.1	14.1	27.2	38.9	8.7	4.1	43.7	32.9
Netherlands	473	78.7	5.8	10.0	5.2	78.7	0.3	0.0	81.7	75.5
New Zealand	700	59.9	11.3	14.2	11.5	59.9	2.8	0.2	60.3	59.6
Norway	577	70.7	8.6	7.2	9.0	70.7	3.5	1.0	73.3	67.8
Qatar	994	24.4	12.8	28.7	23.9	24.4	8.6	1.7	25.5	23.1
Russian Federation	645	82.1	5.7	4.2	6.4	82.1	1.4	0.1	85.8	78.4
Scotland	555	68.8	8.5	9.7	8.8	68.8	3.2	1.0	71.7	65.9
Singapore	724	81.4	4.7	8.0	5.6	81.4	0.3	0.0	83.6	79.1
Slovak Republic	713	78.1	5.5	8.0	5.5	78.1	3.0	0.0	80.0	76.0
Slovenia	611	78.0	3.9	5.9	8.4	78.0	3.9	0.0	80.4	75.6
Sweden	661	71.5	5.1	13.3	3.4	71.5	5.5	1.2	73.8	69.1
Tunisia	588	33.7	7.8	16.8	18.5	33.7	18.8	4.3	37.1	30.7
Ukraine	615	69.2	6.1	8.9	13.8	69.2	1.9	0.1	72.8	65.8
United States	1133	72.1	5.9	10.0	10.9	72.1	1.1	0.0	72.8	71.4
Yemen	821	21.9	8.4	19.1	29.6	21.9	16.0	5.1	22.0	21.9
International Avg.	635	67.1	6.8	10.2	10.4	67.1	4.3	1.2	69.5	64.8
Alberta, Canada	586	66.4	8.2	10.6	11.1	66.4	3.2	0.6	66.8	66.0
British Columbia, Canada	603	62.9	7.1	13.7	11.0	62.9	4.5	0.9	63.3	62.5
Dubai, UAE	428	53.1	8.3	14.7	19.3	53.1	4.0	0.7	54.1	52.1
Massachusetts, US	249	89.8	3.3	2.7	2.9	89.8	1.4	0.0	91.3	88.4
Minnesota, US	268	80.5	4.7	6.4	8.4	80.5	0.1	0.0	82.8	77.9
Ontario, Canada	498	69.2	7.8	11.7	9.0	69.2	1.9	0.4	73.8	64.9
Quebec, Canada	526	71.1	5.7	12.8	5.5	71.1	4.2	0.7	70.3	72.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031276 - M07\_07)  
 Label: The pointer on the scale  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	584	29.8	14.6	19.9	29.7	29.8	3.2	2.8	27.9	31.7
Armenia	585	48.5	10.4	10.5	22.4	48.5	4.5	3.7	48.2	48.9
Australia	577	59.3	5.6	9.4	23.6	59.3	1.6	0.5	54.2	63.4
Austria	696	47.0	6.0	6.7	38.1	47.0	2.2	0.0	38.7	55.1
Chinese Taipei	586	76.0	1.0	1.8	21.0	76.0	0.1	0.0	73.7	78.1
Colombia	695	25.7	19.1	19.7	25.4	25.7	4.7	5.4	22.1	30.2
Czech Republic	609	52.2	6.2	6.0	33.2	52.2	2.5	0.0	41.6	59.9
Denmark	511	59.9	3.8	6.1	27.5	59.9	1.9	0.8	52.1	67.4
El Salvador	600	24.6	19.6	24.8	25.1	24.6	3.1	2.7	22.7	26.5
England	616	74.3	3.7	6.0	15.2	74.3	0.6	0.1	68.4	79.7
Georgia	575	49.2	10.7	6.4	27.0	49.2	4.0	2.7	47.6	50.4
Germany	743	62.5	1.5	7.2	27.3	62.5	0.9	0.7	58.5	65.7
Hong Kong SAR	532	80.3	2.7	1.5	15.4	80.3	0.2	0.0	76.1	83.4
Hungary	571	67.6	4.1	5.9	21.2	67.6	0.9	0.3	61.4	73.0
Iran, Islamic Rep. of	548	38.3	15.2	15.4	23.4	38.3	5.5	2.3	36.3	39.9
Italy	629	39.0	11.3	16.4	31.1	39.0	1.8	0.5	31.1	46.3
Japan	646	77.8	1.2	1.9	18.7	77.8	0.2	0.2	75.8	79.5
Kazakhstan	566	67.1	4.9	7.6	20.3	67.1	0.0	0.0	64.4	69.8
Kuwait	531	33.7	16.8	15.5	23.7	33.7	6.3	4.0	28.7	38.9
Latvia	570	65.9	2.8	5.5	24.4	65.9	0.9	0.5	61.1	70.0
Lithuania	576	64.7	1.6	4.6	28.5	64.7	0.5	0.0	52.9	75.9
Morocco	527	27.7	15.9	16.5	28.8	27.7	5.8	5.4	30.1	24.7
Netherlands	473	80.3	1.1	1.9	16.6	80.3	0.1	0.0	75.5	85.6
New Zealand	700	53.3	6.9	11.5	25.9	53.3	2.1	0.2	47.4	58.7
Norway	577	44.3	6.7	14.7	32.1	44.3	1.2	1.0	40.1	48.9
Qatar	994	28.9	18.5	18.3	28.6	28.9	3.8	1.9	29.7	27.9
Russian Federation	645	57.0	6.6	11.5	22.6	57.0	2.2	0.1	55.3	58.7
Scotland	555	61.0	5.7	10.0	21.1	61.0	1.2	1.0	59.1	63.0
Singapore	724	79.7	2.3	2.9	15.1	79.7	0.0	0.0	78.7	80.8
Slovak Republic	713	52.8	8.3	7.9	30.2	52.8	0.4	0.3	51.1	54.6
Slovenia	611	50.9	4.3	8.1	35.0	50.9	1.7	0.0	48.8	52.9
Sweden	661	57.1	4.0	6.9	30.0	57.1	0.7	1.2	55.3	59.1
Tunisia	588	28.7	14.9	17.5	27.5	28.7	6.9	4.5	26.9	30.3
Ukraine	615	41.9	8.8	14.2	34.1	41.9	0.8	0.1	37.1	46.5
United States	1133	60.8	7.6	9.9	20.7	60.8	1.0	0.0	55.9	65.7
Yemen	821	34.5	9.4	19.5	22.5	34.5	8.0	6.1	34.4	34.6
International Avg.	636	52.8	7.9	10.3	25.4	52.8	2.3	1.4	49.1	56.3
Alberta, Canada	586	57.8	3.7	9.8	25.7	57.8	2.5	0.6	55.9	59.7
British Columbia, Canada	603	54.4	8.0	8.4	26.3	54.4	2.0	0.9	49.4	59.0
Dubai, UAE	428	39.8	15.6	11.9	29.3	39.8	2.7	0.7	39.2	40.4
Massachusetts, US	249	70.7	2.9	6.9	19.1	70.7	0.4	0.0	61.7	79.4
Minnesota, US	268	73.3	3.6	8.5	14.5	73.3	0.1	0.0	69.5	77.7
Ontario, Canada	498	56.1	3.7	12.9	25.8	56.1	1.0	0.4	45.4	66.3
Quebec, Canada	526	56.0	3.8	9.1	29.0	56.0	1.2	1.0	46.9	66.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031064 - M07\_08)  
 Label: Time to bake biscuits  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	584	20.4	20.4	9.6	26.1	34.5	5.6	3.8	24.3	16.5
Armenia	585	42.8	42.8	13.0	10.5	16.2	13.8	3.7	42.8	42.9
Australia	577	39.6	39.6	27.1	16.3	15.4	1.1	0.5	37.4	41.3
Austria	696	42.6	42.6	28.3	14.7	11.1	3.2	0.0	43.7	41.6
Chinese Taipei	586	60.4	60.4	11.9	14.2	12.9	0.7	0.0	57.3	63.1
Colombia	695	20.6	20.6	11.8	21.3	37.3	2.7	6.3	16.4	25.9
Czech Republic	609	53.3	53.3	25.3	11.4	7.6	2.4	0.0	54.2	52.6
Denmark	512	46.6	46.6	30.5	11.9	7.3	2.9	0.8	38.5	54.6
El Salvador	600	31.4	31.4	12.2	20.6	29.1	3.8	2.9	26.6	36.0
England	616	47.2	47.2	23.9	16.3	11.0	1.5	0.1	48.1	46.4
Georgia	575	32.0	32.0	15.2	13.0	28.1	8.6	3.1	29.2	34.0
Germany	743	59.0	59.0	22.5	10.9	5.5	1.4	0.7	55.9	61.6
Hong Kong SAR	532	65.3	65.3	21.4	4.8	7.9	0.3	0.2	59.7	69.6
Hungary	571	50.3	50.3	20.3	10.8	15.0	3.3	0.3	53.6	47.5
Iran, Islamic Rep. of	548	15.3	15.3	15.1	26.2	36.5	3.3	3.6	18.8	12.3
Italy	628	47.8	47.8	23.3	14.0	11.3	3.1	0.5	46.0	49.6
Japan	646	49.7	49.7	28.8	9.7	11.5	0.1	0.2	50.6	48.9
Kazakhstan	566	63.8	63.8	10.9	9.2	15.8	0.2	0.0	58.9	68.7
Kuwait	531	13.1	13.1	13.4	24.1	38.1	6.6	4.7	11.2	15.2
Latvia	570	49.1	49.1	16.4	14.5	19.0	0.5	0.5	51.8	46.8
Lithuania	576	60.8	60.8	19.2	9.1	9.8	1.1	0.0	56.2	65.3
Morocco	534	13.9	13.9	13.9	27.6	30.8	8.4	5.4	13.8	13.9
Netherlands	473	64.3	64.3	22.6	6.2	5.9	1.0	0.0	60.9	67.9
New Zealand	700	37.0	37.0	23.2	17.4	19.5	2.7	0.2	35.5	38.3
Norway	577	39.1	39.1	28.7	17.2	9.4	4.2	1.3	43.8	34.0
Qatar	994	16.3	16.3	17.0	20.3	39.9	4.5	2.0	16.8	15.7
Russian Federation	645	58.9	58.9	17.4	7.0	13.9	2.4	0.3	57.3	60.5
Scotland	555	37.6	37.6	25.9	13.5	19.1	2.7	1.1	40.7	34.6
Singapore	724	62.9	62.9	16.4	10.9	9.7	0.2	0.0	62.6	63.2
Slovak Republic	713	55.9	55.9	19.9	9.5	9.9	4.5	0.3	54.6	57.3
Slovenia	611	48.3	48.3	23.2	15.0	10.0	3.5	0.0	46.5	50.1
Sweden	661	56.0	56.0	25.8	9.3	5.5	2.1	1.2	58.6	53.3
Tunisia	588	17.2	17.2	13.8	21.4	31.8	11.3	4.5	19.2	15.5
Ukraine	615	43.5	43.5	18.6	14.6	19.3	3.9	0.1	46.3	40.9
United States	1133	47.1	47.1	24.7	13.6	13.5	1.2	0.0	45.9	48.3
Yemen	822	10.2	10.2	16.7	23.9	33.4	9.8	6.1	8.9	11.3
International Avg.	636	42.2	42.2	19.7	14.9	18.1	3.6	1.5	41.5	42.9
Alberta, Canada	586	44.8	44.8	24.6	13.8	13.7	2.2	0.8	43.3	46.3
British Columbia, Canada	603	38.2	38.2	25.9	16.9	15.3	2.9	0.9	35.0	41.0
Dubai, UAE	428	26.6	26.6	13.1	24.2	30.9	4.6	0.7	22.3	30.7
Massachusetts, US	249	56.0	56.0	27.4	7.5	7.9	1.2	0.0	55.2	56.7
Minnesota, US	268	53.8	53.8	24.1	11.1	10.3	0.7	0.0	50.5	57.6
Ontario, Canada	498	47.0	47.0	23.2	13.3	13.8	2.3	0.4	43.9	49.9
Quebec, Canada	526	43.6	43.6	29.4	13.0	11.0	2.0	1.0	42.1	45.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031006 - M07\_09)  
 Label: Least number of tiles to cover floor  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	573	49.6	5.7	49.6	32.6	5.3	2.1	4.7	47.3	51.7
Armenia	584	55.2	5.4	55.2	23.0	4.2	6.3	5.9	60.1	50.2
Australia	577	84.4	1.5	84.4	11.0	1.7	0.8	0.5	84.4	84.4
Austria	696	84.4	1.0	84.4	11.7	1.8	1.1	0.0	84.9	84.0
Chinese Taipei	586	73.2	0.9	73.2	25.0	0.9	0.0	0.0	72.4	73.9
Colombia	695	60.6	5.9	60.6	21.2	3.4	2.0	6.9	62.6	58.1
Czech Republic	609	79.8	1.2	79.8	15.3	1.3	2.1	0.2	79.8	79.8
Denmark	512	84.4	2.3	84.4	8.1	1.1	3.0	1.1	83.4	85.4
El Salvador	600	47.8	13.8	47.8	22.1	10.1	2.2	4.1	49.7	45.9
England	616	83.5	3.3	83.5	7.7	4.2	0.9	0.4	87.0	80.5
Georgia	575	58.5	3.8	58.5	29.4	2.1	1.8	4.4	61.0	56.6
Germany	743	90.4	0.8	90.4	5.3	2.0	0.6	0.9	91.0	89.8
Hong Kong SAR	532	87.5	3.4	87.5	6.4	2.5	0.0	0.2	90.2	85.4
Hungary	571	77.3	1.5	77.3	17.7	1.1	1.4	1.0	79.6	75.4
Iran, Islamic Rep. of	548	55.8	5.2	55.8	27.6	5.0	2.2	4.2	58.2	53.7
Italy	627	78.0	3.9	78.0	13.2	3.3	0.7	0.9	76.6	79.3
Japan	646	64.4	8.9	64.4	20.9	5.3	0.4	0.2	65.6	63.3
Kazakhstan	566	72.2	1.8	72.2	18.9	7.1	0.0	0.0	75.5	69.0
Kuwait	531	51.3	7.2	51.3	22.3	7.4	6.6	5.2	55.6	46.7
Latvia	570	84.8	2.7	84.8	8.4	2.8	0.8	0.5	89.9	80.4
Lithuania	576	89.1	0.3	89.1	8.6	1.6	0.4	0.1	89.6	88.6
Morocco	511	39.1	14.2	39.1	24.0	12.6	4.0	6.1	41.9	35.9
Netherlands	473	90.3	0.3	90.3	8.6	0.5	0.3	0.0	88.5	92.3
New Zealand	700	78.7	2.1	78.7	13.8	3.1	2.1	0.4	81.0	76.5
Norway	577	73.1	3.5	73.1	18.6	1.8	1.3	1.7	75.0	70.9
Qatar	994	43.2	14.5	43.2	24.6	10.5	4.7	2.5	40.5	46.1
Russian Federation	645	84.7	1.2	84.7	11.8	0.7	1.1	0.5	85.1	84.3
Scotland	555	79.7	2.4	79.7	9.9	5.1	1.6	1.3	79.0	80.3
Singapore	724	72.4	3.3	72.4	21.3	2.7	0.3	0.0	77.4	67.1
Slovak Republic	713	85.3	1.2	85.3	10.6	0.8	1.5	0.5	87.1	83.5
Slovenia	611	90.1	1.5	90.1	5.8	1.2	1.2	0.3	90.2	90.0
Sweden	661	78.5	2.7	78.5	9.7	5.1	2.8	1.3	78.9	78.0
Tunisia	588	35.6	5.9	35.6	37.4	4.8	10.3	6.0	36.3	34.9
Ukraine	615	76.0	2.1	76.0	17.3	2.9	1.7	0.1	80.6	71.6
United States	1133	79.2	2.6	79.2	13.5	3.3	1.2	0.2	81.7	76.8
Yemen	822	28.4	13.3	28.4	34.2	8.9	8.5	6.6	26.7	29.8
International Avg.	635	70.7	4.2	70.7	17.2	3.8	2.2	1.9	72.1	69.5
Alberta, Canada	586	82.7	1.8	82.7	10.2	1.9	2.5	0.8	85.3	80.2
British Columbia, Canada	603	81.4	0.8	81.4	10.6	4.0	1.7	1.5	81.4	81.3
Dubai, UAE	428	62.2	5.3	62.2	20.3	8.1	3.2	0.9	66.4	58.2
Massachusetts, US	249	89.7	0.9	89.7	6.7	1.8	0.4	0.5	92.5	87.0
Minnesota, US	268	86.5	3.5	86.5	8.3	1.0	0.4	0.3	89.6	82.9
Ontario, Canada	498	78.8	1.7	78.8	14.1	3.2	1.3	1.0	83.4	74.4
Quebec, Canada	526	70.3	1.5	70.3	21.9	2.9	2.1	1.3	72.7	67.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031330 - M07\_10)  
 Label: List the shapes that are triangles  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	605	40.6	44.4	10.0	5.0	40.6	44.7	36.4
Armenia	584	61.1	20.3	12.2	6.4	61.1	63.2	59.1
Australia	577	85.2	12.2	1.7	1.0	85.2	88.0	82.8
Austria	696	77.1	16.2	6.7	0.0	77.1	79.8	74.4
Chinese Taipei	586	83.6	14.8	1.5	0.0	83.6	82.5	84.6
Colombia	695	37.8	43.1	11.2	7.8	37.8	38.4	37.1
Czech Republic	609	87.0	11.2	1.4	0.3	87.0	85.6	88.1
Denmark	511	88.7	8.4	1.3	1.6	88.7	86.0	91.2
El Salvador	600	26.8	62.8	5.8	4.6	26.8	24.6	29.0
England	616	85.3	13.2	1.0	0.4	85.3	88.8	82.3
Georgia	575	71.3	20.0	4.1	4.6	71.3	72.4	70.5
Germany	743	83.5	13.4	2.1	1.0	83.5	83.8	83.2
Hong Kong SAR	532	93.1	6.7	0.0	0.2	93.1	93.1	93.2
Hungary	571	85.8	11.4	1.7	1.2	85.8	86.5	85.2
Iran, Islamic Rep. of	548	53.7	32.8	8.7	4.8	53.7	56.8	51.0
Italy	629	83.3	13.0	2.4	1.2	83.3	82.8	83.9
Japan	646	85.2	13.5	1.1	0.2	85.2	82.7	87.5
Kazakhstan	566	81.3	18.1	0.7	0.0	81.3	77.1	85.4
Kuwait	531	22.4	56.6	15.6	5.5	22.4	24.7	19.8
Latvia	570	89.6	8.9	0.9	0.5	89.6	87.4	91.4
Lithuania	576	77.2	18.3	4.4	0.1	77.2	75.7	78.5
Morocco	555	23.1	47.7	22.6	6.6	23.1	25.6	20.6
Netherlands	473	62.7	33.8	3.5	0.0	62.7	63.6	61.7
New Zealand	700	75.2	21.9	2.4	0.5	75.2	74.5	75.9
Norway	577	85.1	11.6	1.5	1.7	85.1	85.3	84.9
Qatar	994	17.7	68.3	11.1	2.9	17.7	17.5	17.9
Russian Federation	645	84.7	13.3	1.5	0.5	84.7	84.9	84.5
Scotland	555	75.9	19.9	2.9	1.3	75.9	76.6	75.3
Singapore	724	81.0	18.7	0.3	0.0	81.0	83.9	77.9
Slovak Republic	714	90.3	7.8	1.4	0.5	90.3	92.1	88.3
Slovenia	611	88.0	10.9	0.8	0.3	88.0	89.2	86.8
Sweden	661	86.1	9.1	3.2	1.6	86.1	89.2	82.9
Tunisia	588	48.7	36.1	8.2	7.1	48.7	50.5	47.0
Ukraine	615	68.5	27.0	4.1	0.4	68.5	69.6	67.5
United States	1133	86.5	12.5	0.8	0.2	86.5	88.0	85.1
Yemen	822	9.6	66.6	16.6	7.2	9.6	11.1	8.4
International Avg.	637	69.0	24.0	4.9	2.1	69.0	69.6	68.3
Alberta, Canada	586	75.9	19.0	4.2	0.8	75.9	77.6	74.3
British Columbia, Canada	603	78.3	17.9	2.1	1.7	78.3	78.6	78.1
Dubai, UAE	428	59.6	34.8	4.7	0.9	59.6	65.3	54.1
Massachusetts, US	249	92.2	7.4	0.0	0.5	92.2	92.9	91.5
Minnesota, US	268	88.1	10.2	1.4	0.3	88.1	91.1	84.8
Ontario, Canada	498	84.5	13.2	1.4	1.0	84.5	86.8	82.3
Quebec, Canada	526	85.1	11.5	2.0	1.5	85.1	84.2	86.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031351 - M07\_11)  
 Label: Which could fold into a 3-D figure  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	24.3	29.8	17.6	17.5	24.3	4.3	6.4	25.0	23.6
Armenia	580	31.8	36.7	6.7	7.7	31.8	8.5	8.6	29.1	34.5
Australia	577	70.7	12.7	10.6	3.8	70.7	0.9	1.3	71.2	70.4
Austria	696	54.4	24.0	10.4	6.5	54.4	4.4	0.3	51.2	57.6
Chinese Taipei	586	74.3	13.8	5.2	5.3	74.3	1.4	0.0	75.5	73.2
Colombia	695	19.1	43.8	13.3	11.8	19.1	2.9	9.0	18.7	19.6
Czech Republic	609	46.9	28.8	10.2	7.2	46.9	6.2	0.7	42.0	50.5
Denmark	510	58.1	23.3	7.7	6.1	58.1	2.9	1.9	63.2	53.1
El Salvador	600	25.0	33.9	18.1	13.1	25.0	3.7	6.1	25.9	24.2
England	616	66.4	14.9	8.3	7.7	66.4	2.1	0.6	69.8	63.4
Georgia	575	31.6	34.1	9.4	12.9	31.6	6.9	5.0	29.5	33.2
Germany	743	65.9	16.0	8.0	6.6	65.9	2.6	1.0	62.9	68.3
Hong Kong SAR	532	73.8	10.3	8.9	6.2	73.8	0.6	0.2	75.2	72.7
Hungary	571	48.6	27.9	11.1	7.5	48.6	2.7	2.1	49.0	48.3
Iran, Islamic Rep. of	548	26.0	30.6	16.5	15.2	26.0	6.1	5.6	28.8	23.7
Italy	629	45.6	30.3	12.1	8.1	45.6	2.7	1.2	43.1	48.0
Japan	646	70.8	11.3	8.3	7.8	70.8	1.4	0.4	72.3	69.5
Kazakhstan	566	59.6	23.9	9.8	6.6	59.6	0.1	0.0	58.2	61.1
Kuwait	531	15.7	37.1	14.7	17.3	15.7	8.0	7.1	19.0	12.3
Latvia	570	46.8	28.3	8.8	14.0	46.8	1.6	0.5	53.0	41.5
Lithuania	576	62.4	22.4	8.3	5.1	62.4	1.5	0.2	67.8	57.3
Morocco	527	20.1	25.3	17.7	18.1	20.1	9.1	9.7	24.7	14.0
Netherlands	473	59.6	18.3	11.2	9.4	59.6	1.0	0.4	60.5	58.7
New Zealand	700	60.0	19.3	11.8	6.5	60.0	1.9	0.5	58.8	61.1
Norway	577	46.2	24.3	15.1	10.5	46.2	1.7	2.2	48.8	43.3
Qatar	994	16.7	33.9	20.7	19.7	16.7	5.5	3.5	17.6	15.8
Russian Federation	645	57.8	25.5	7.3	6.1	57.8	2.7	0.5	57.6	58.0
Scotland	555	48.4	26.9	13.7	6.6	48.4	3.1	1.3	51.1	45.7
Singapore	724	58.2	23.9	9.6	8.2	58.2	0.0	0.0	64.1	52.1
Slovak Republic	715	45.0	32.2	10.6	7.6	45.0	4.1	0.6	41.0	49.2
Slovenia	611	46.0	28.8	13.7	8.6	46.0	2.6	0.3	44.9	47.1
Sweden	661	49.1	22.3	13.3	10.2	49.1	3.5	1.7	51.9	46.1
Tunisia	588	12.2	31.2	14.1	19.1	12.2	15.5	7.9	12.9	11.6
Ukraine	615	38.7	30.7	14.7	11.2	38.7	3.6	1.2	37.1	40.1
United States	1133	56.5	26.5	10.3	5.7	56.5	0.9	0.2	55.3	57.7
Yemen	824	11.2	21.8	17.5	26.8	11.2	14.1	8.7	11.7	10.8
International Avg.	635	45.7	25.7	11.8	10.2	45.7	3.9	2.7	46.3	44.9
Alberta, Canada	586	65.5	15.3	11.9	4.3	65.5	2.1	0.9	66.2	64.8
British Columbia, Canada	603	56.1	21.4	13.6	5.7	56.1	1.6	1.7	56.7	55.6
Dubai, UAE	428	32.3	36.6	15.8	10.2	32.3	4.3	0.9	32.1	32.5
Massachusetts, US	249	61.5	21.6	10.5	5.9	61.5	0.0	0.5	59.9	62.9
Minnesota, US	268	60.5	23.9	11.3	3.7	60.5	0.3	0.3	62.1	58.7
Ontario, Canada	498	67.1	17.4	9.0	3.2	67.1	2.3	1.0	71.7	62.7
Quebec, Canada	526	71.8	13.6	7.0	3.2	71.8	2.3	2.0	68.2	75.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M031135 - M07\_12)  
 Label: Favorite fruit juice of classmates  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	33.1	11.3	33.1	16.0	20.1	12.1	7.3	34.2	32.1
Armenia	578	44.4	9.2	44.4	9.1	9.0	17.6	10.7	44.5	44.2
Australia	577	81.5	2.3	81.5	3.1	9.8	2.0	1.3	87.3	76.7
Austria	696	78.2	4.5	78.2	3.6	9.0	4.0	0.7	78.4	78.1
Chinese Taipei	586	93.5	1.4	93.5	1.0	3.7	0.3	0.1	95.3	91.9
Colombia	695	39.1	12.2	39.1	9.7	21.6	6.9	10.4	40.5	37.5
Czech Republic	609	69.8	4.2	69.8	3.0	15.1	6.9	1.0	70.2	69.5
Denmark	512	78.5	6.1	78.5	1.9	7.2	3.1	3.0	77.2	79.7
El Salvador	599	37.9	13.0	37.9	9.6	26.9	5.0	7.5	35.7	40.1
England	616	80.4	4.0	80.4	4.1	7.8	2.7	1.0	80.8	80.1
Georgia	575	47.5	12.8	47.5	11.7	14.3	7.3	6.5	49.5	46.2
Germany	743	81.3	3.0	81.3	1.5	10.5	2.1	1.6	83.1	79.8
Hong Kong SAR	532	91.8	2.7	91.8	0.6	4.4	0.3	0.2	94.8	89.5
Hungary	571	74.1	4.8	74.1	3.8	11.4	3.6	2.3	77.6	71.0
Iran, Islamic Rep. of	548	49.2	10.7	49.2	12.7	14.5	5.9	7.0	56.2	43.2
Italy	627	74.3	7.8	74.3	3.8	7.4	5.1	1.6	75.9	72.8
Japan	646	95.1	1.8	95.1	0.5	1.8	0.2	0.6	94.3	95.9
Kazakhstan	566	79.6	6.7	79.6	2.5	10.6	0.5	0.0	81.7	77.6
Kuwait	531	42.7	12.4	42.7	12.4	16.7	7.3	8.4	45.0	40.3
Latvia	570	78.4	7.0	78.4	2.8	10.0	1.1	0.6	81.2	76.0
Lithuania	576	75.9	7.3	75.9	3.1	11.0	2.6	0.2	77.7	74.2
Morocco	517	21.9	14.4	21.9	16.7	20.6	15.9	10.5	23.4	19.8
Netherlands	473	87.1	2.5	87.1	0.9	8.8	0.3	0.4	92.5	81.3
New Zealand	700	76.4	5.8	76.4	2.5	11.7	2.5	1.1	80.0	73.1
Norway	577	68.5	5.8	68.5	4.9	13.4	5.0	2.5	68.6	68.3
Qatar	994	34.5	18.3	34.5	16.6	18.5	7.5	4.6	36.1	32.7
Russian Federation	645	77.2	3.0	77.2	5.6	12.1	0.9	1.2	84.0	70.3
Scotland	555	70.2	6.5	70.2	5.4	12.8	2.9	2.1	71.9	68.6
Singapore	724	93.4	1.8	93.4	1.1	3.7	0.1	0.0	95.6	91.0
Slovak Republic	715	70.8	6.8	70.8	2.7	14.0	4.9	0.9	70.5	71.2
Slovenia	601	70.2	4.4	70.2	1.5	8.3	15.0	0.6	74.1	66.3
Sweden	661	76.8	4.8	76.8	2.7	10.0	3.6	1.9	78.4	75.2
Tunisia	588	23.2	10.3	23.2	17.3	15.3	18.9	15.1	27.8	19.1
Ukraine	615	66.4	8.0	66.4	6.7	14.7	1.5	2.7	69.5	63.4
United States	1133	87.5	3.8	87.5	1.9	5.7	0.8	0.3	88.6	86.5
Yemen	824	19.6	12.1	19.6	19.7	17.2	18.1	13.3	19.7	19.6
International Avg.	634	65.8	7.0	65.8	6.2	11.9	5.4	3.6	67.8	64.0
Alberta, Canada	586	82.9	5.6	82.9	2.1	7.8	0.4	1.2	81.5	84.2
British Columbia, Canada	603	81.0	5.1	81.0	2.7	7.4	1.5	2.3	80.4	81.5
Dubai, UAE	428	62.0	6.7	62.0	7.6	16.1	6.1	1.5	69.5	54.7
Massachusetts, US	249	90.3	3.3	90.3	0.9	3.7	1.4	0.5	88.8	91.7
Minnesota, US	268	90.3	2.6	90.3	1.8	4.6	0.4	0.3	93.3	87.0
Ontario, Canada	498	84.3	3.0	84.3	1.6	8.8	0.6	1.7	86.5	82.2
Quebec, Canada	526	82.7	2.7	82.7	2.1	7.7	2.7	2.1	83.0	82.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041291 - M08\_01)  
 Label: Subtract 428 - 176  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	NOT REACH ED		
							V1	1.GIRL %Right	2.BOY %Right
Algeria	607	50.6	7.1	27.6	12.8	2.0	50.6	51.3	49.8
Armenia	592	81.9	3.7	11.1	3.0	0.2	81.9	84.0	80.3
Australia	579	47.1	21.0	28.8	3.1	0.0	47.1	48.4	45.8
Austria	689	77.6	7.0	13.6	1.8	0.0	77.6	77.9	77.3
Chinese Taipei	590	94.0	1.8	4.2	0.0	0.0	94.0	94.8	93.2
Colombia	689	50.5	9.8	29.6	7.6	2.5	50.5	48.8	52.6
Czech Republic	611	62.6	12.4	23.3	1.7	0.0	62.6	62.1	62.9
Denmark	504	63.0	14.6	19.2	2.4	0.7	63.0	65.4	60.5
El Salvador	594	28.3	9.2	43.4	17.2	1.9	28.3	25.4	31.0
England	622	58.1	15.5	23.7	2.7	0.0	58.1	56.5	59.7
Georgia	571	75.3	9.3	11.1	3.4	0.9	75.3	74.9	75.7
Germany	746	68.2	10.4	17.8	3.3	0.2	68.2	67.1	69.2
Hong Kong SAR	544	89.1	2.5	8.3	0.1	0.0	89.1	89.1	89.1
Hungary	574	70.1	9.7	17.0	2.8	0.4	70.1	72.0	68.1
Iran, Islamic Rep. of	541	68.1	5.9	19.5	6.1	0.3	68.1	71.9	64.6
Italy	635	75.9	8.5	13.0	2.6	0.0	75.9	74.8	76.8
Japan	633	85.2	4.7	9.9	0.3	0.0	85.2	84.7	85.6
Kazakhstan	567	87.6	5.6	6.7	0.1	0.0	87.6	87.4	87.9
Kuwait	534	39.4	7.7	38.3	14.4	0.2	39.4	41.4	37.4
Latvia	563	72.6	10.5	16.3	0.6	0.0	72.6	75.2	69.8
Lithuania	561	79.2	8.1	11.8	0.9	0.0	79.2	81.5	77.1
Morocco	566	46.8	12.0	29.0	11.4	0.8	46.8	46.1	47.2
Netherlands	483	63.7	11.5	23.4	1.4	0.0	63.7	65.1	62.4
New Zealand	714	31.5	21.9	41.5	4.4	0.7	31.5	27.5	35.3
Norway	569	48.0	20.5	27.5	4.0	0.1	48.0	48.3	47.6
Qatar	991	29.4	12.6	46.6	11.0	0.3	29.4	34.5	24.1
Russian Federation	638	87.6	4.2	8.0	0.1	0.0	87.6	87.4	87.8
Scotland	560	47.4	21.2	23.8	7.5	0.0	47.4	52.0	42.2
Singapore	723	92.8	1.2	5.8	0.3	0.0	92.8	93.3	92.3
Slovak Republic	716	73.1	10.4	14.4	2.1	0.0	73.1	75.0	71.2
Slovenia	619	66.4	12.0	19.1	2.5	0.0	66.4	69.1	63.8
Sweden	660	42.7	25.1	27.4	4.7	0.0	42.7	39.6	46.3
Tunisia	591	53.7	11.4	26.3	6.2	2.5	53.7	58.2	49.3
Ukraine	610	75.9	6.2	16.0	1.9	0.0	75.9	79.9	72.3
United States	1131	81.0	7.5	11.1	0.3	0.0	81.0	80.3	81.8
Yemen	823	23.7	4.6	49.0	21.1	1.6	23.7	25.7	22.1
International Avg.	637	63.6	10.2	21.2	4.6	0.4	63.6	64.3	62.8
Alberta, Canada	589	61.0	14.8	21.8	2.3	0.1	61.0	64.3	58.1
British Columbia, Canada	606	66.3	13.0	18.8	1.6	0.3	66.3	66.7	65.9
Dubai, UAE	437	65.7	8.6	22.9	2.8	0.0	65.7	68.2	63.3
Massachusetts, US	253	83.8	6.2	8.6	1.4	0.0	83.8	86.3	81.6
Minnesota, US	268	80.4	7.1	12.2	0.4	0.0	80.4	81.5	79.2
Ontario, Canada	506	55.6	17.2	26.3	0.9	0.0	55.6	53.0	58.4
Quebec, Canada	557	80.5	6.3	11.2	1.8	0.1	80.5	82.0	78.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041289 - M08\_02)  
 Label: Number closest in size to 300  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	583	19.2	6.3	61.2	19.2	8.7	2.6	2.0	19.2	19.2
Armenia	595	36.0	2.6	52.5	36.0	3.4	5.4	0.2	35.9	36.0
Australia	578	75.3	0.7	21.7	75.3	2.0	0.2	0.0	66.9	83.2
Austria	689	56.3	0.2	39.0	56.3	3.3	1.1	0.0	49.5	63.3
Chinese Taipei	590	56.0	0.3	42.4	56.0	0.4	0.8	0.0	49.3	62.6
Colombia	689	8.5	3.0	79.7	8.5	5.7	0.6	2.5	6.1	11.5
Czech Republic	611	54.3	0.7	44.0	54.3	1.1	0.0	0.0	45.6	60.3
Denmark	505	82.0	0.9	15.1	82.0	1.0	0.3	0.7	73.6	90.8
El Salvador	594	11.5	3.1	69.3	11.5	11.0	2.8	2.3	11.9	11.1
England	622	81.5	0.3	13.5	81.5	3.0	1.7	0.0	78.8	84.1
Georgia	571	33.3	0.9	59.3	33.3	4.4	1.0	1.0	26.9	38.0
Germany	746	77.3	0.1	20.7	77.3	1.0	0.6	0.2	69.6	83.8
Hong Kong SAR	544	80.9	0.1	18.6	80.9	0.5	0.0	0.0	76.6	84.5
Hungary	574	61.5	1.4	32.8	61.5	2.1	1.8	0.4	62.9	60.1
Iran, Islamic Rep. of	541	16.8	2.6	72.4	16.8	6.8	1.0	0.5	16.5	17.0
Italy	634	37.3	0.4	59.2	37.3	2.4	0.6	0.0	32.3	41.8
Japan	633	82.4	0.2	16.5	82.4	0.5	0.4	0.0	77.6	87.1
Kazakhstan	567	30.3	0.6	68.3	30.3	0.9	0.0	0.0	25.7	35.5
Kuwait	534	38.2	5.8	31.1	38.2	21.2	3.5	0.2	40.4	35.9
Latvia	563	45.0	1.1	50.7	45.0	1.6	1.6	0.0	37.0	53.5
Lithuania	561	56.0	0.2	40.9	56.0	0.8	2.1	0.0	55.8	56.1
Morocco	548	25.3	2.5	56.2	25.3	12.2	2.7	1.1	27.3	22.9
Netherlands	483	85.0	0.3	13.8	85.0	0.5	0.4	0.0	78.4	91.4
New Zealand	714	66.9	0.9	26.7	66.9	4.5	0.3	0.7	63.1	70.4
Norway	569	76.6	0.9	19.5	76.6	2.9	0.0	0.1	70.2	83.3
Qatar	991	35.3	7.4	35.4	35.3	19.1	2.3	0.5	36.7	33.7
Russian Federation	638	33.9	0.7	64.1	33.9	0.8	0.4	0.0	29.3	39.0
Scotland	560	69.8	1.0	26.1	69.8	2.2	0.7	0.2	68.4	71.5
Singapore	723	61.6	2.0	34.7	61.6	1.7	0.1	0.0	55.9	66.9
Slovak Republic	716	55.3	1.2	41.8	55.3	1.3	0.3	0.0	49.4	61.5
Slovenia	619	51.1	1.0	43.1	51.1	4.2	0.6	0.0	43.5	58.0
Sweden	660	77.9	0.1	20.5	77.9	1.0	0.6	0.0	74.0	82.2
Tunisia	591	19.8	3.5	55.5	19.8	9.7	8.9	2.6	17.4	22.2
Ukraine	610	26.2	0.7	66.1	26.2	6.0	1.1	0.0	26.1	26.2
United States	1131	64.1	0.6	33.9	64.1	0.8	0.6	0.0	58.2	69.9
Yemen	823	28.3	10.4	30.7	28.3	22.3	6.7	1.6	25.5	30.5
International Avg.	636	50.5	1.8	41.0	50.5	4.8	1.5	0.5	46.7	54.0
Alberta, Canada	589	72.6	0.4	25.2	72.6	0.6	1.1	0.1	64.2	79.8
British Columbia, Canada	606	72.7	0.5	24.8	72.7	1.0	0.8	0.3	67.4	77.7
Dubai, UAE	437	41.3	2.6	47.9	41.3	5.8	2.4	0.0	41.7	41.0
Massachusetts, US	253	76.1	0.0	22.0	76.1	0.0	1.9	0.0	72.2	79.8
Minnesota, US	268	74.6	1.2	23.8	74.6	0.0	0.4	0.0	66.5	83.3
Ontario, Canada	506	71.1	0.1	26.5	71.1	1.7	0.6	0.0	68.0	74.4
Quebec, Canada	556	66.1	0.0	30.8	66.1	1.9	1.0	0.1	56.4	77.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041068 - M08\_03)  
 Label: Which is the smallest number  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	590	24.7	61.8	24.7	4.3	3.7	3.4	2.0	21.9	27.5
Armenia	591	29.0	54.2	29.0	5.2	0.2	11.0	0.4	31.8	26.7
Australia	578	33.4	60.7	33.4	4.9	0.3	0.7	0.0	29.1	37.3
Austria	689	25.5	71.0	25.5	1.8	0.2	1.5	0.0	22.9	28.2
Chinese Taipei	590	72.4	18.3	72.4	8.1	0.7	0.5	0.0	69.7	75.0
Colombia	689	1.9	90.3	1.9	1.4	2.3	1.4	2.7	1.8	2.1
Czech Republic	611	17.2	79.2	17.2	2.0	0.2	1.5	0.0	15.1	18.6
Denmark	505	43.6	52.7	43.6	2.0	0.2	0.7	0.7	37.8	49.7
El Salvador	594	3.0	87.8	3.0	1.1	4.3	1.2	2.6	3.7	2.4
England	622	50.5	35.0	50.5	12.2	0.7	1.6	0.0	44.4	56.2
Georgia	571	10.5	67.7	10.5	14.3	1.8	4.6	1.0	9.4	11.4
Germany	746	56.5	40.4	56.5	1.9	0.1	0.9	0.2	49.3	62.8
Hong Kong SAR	544	77.8	18.0	77.8	3.8	0.2	0.2	0.0	73.0	81.9
Hungary	574	25.1	60.0	25.1	10.5	0.4	3.7	0.4	22.0	28.3
Iran, Islamic Rep. of	541	4.7	85.6	4.7	3.3	1.2	4.5	0.7	5.7	3.8
Italy	634	54.6	40.1	54.6	4.5	0.2	0.6	0.0	48.6	59.9
Japan	633	71.9	22.9	71.9	4.8	0.2	0.2	0.0	65.2	78.6
Kazakhstan	567	38.8	53.1	38.8	7.6	0.6	0.0	0.0	35.0	43.0
Kuwait	534	6.4	81.2	6.4	5.4	3.0	3.8	0.2	3.7	9.1
Latvia	563	43.1	53.7	43.1	1.5	0.0	1.6	0.0	43.7	42.5
Lithuania	561	35.3	51.7	35.3	11.3	0.7	1.0	0.0	33.9	36.6
Morocco	551	24.1	63.8	24.1	5.8	2.3	2.5	1.5	21.9	26.6
Netherlands	483	38.7	56.0	38.7	3.9	0.9	0.5	0.0	41.1	36.4
New Zealand	714	27.2	57.5	27.2	12.7	0.8	1.2	0.7	25.3	28.9
Norway	569	24.3	69.8	24.3	5.0	0.0	0.8	0.1	20.0	28.9
Qatar	990	8.4	69.1	8.4	12.3	5.9	3.9	0.5	8.8	8.0
Russian Federation	638	33.9	58.5	33.9	5.7	0.7	1.3	0.0	31.6	36.5
Scotland	560	20.0	71.5	20.0	6.1	0.6	1.6	0.2	18.1	22.2
Singapore	723	78.8	16.2	78.8	4.3	0.7	0.0	0.0	79.6	78.1
Slovak Republic	716	28.2	65.1	28.2	4.8	0.9	0.9	0.0	26.3	30.1
Slovenia	619	22.9	72.8	22.9	1.7	1.2	1.4	0.0	18.2	27.3
Sweden	660	33.8	60.9	33.8	4.1	0.4	0.9	0.0	27.7	40.7
Tunisia	.	.	.	.	.	.	.	.	.	.
Ukraine	610	17.6	71.4	17.6	8.2	1.2	1.4	0.1	15.1	19.9
United States	1131	35.2	56.3	35.2	6.5	0.8	1.3	0.0	31.5	38.8
Yemen	824	8.7	60.3	8.7	16.2	6.2	6.6	1.9	8.7	8.7
International Avg.	638	32.2	58.1	32.2	6.0	1.2	2.0	0.5	29.8	34.6
Alberta, Canada	589	31.1	65.4	31.1	1.6	0.5	1.2	0.1	29.7	32.4
British Columbia, Canada	606	25.4	68.3	25.4	3.8	0.7	1.2	0.5	22.9	27.8
Dubai, UAE	437	19.9	70.8	19.9	5.0	3.1	1.1	0.1	17.3	22.3
Massachusetts, US	253	51.6	38.6	51.6	6.8	1.7	1.4	0.0	46.4	56.3
Minnesota, US	268	49.5	37.7	49.5	9.8	1.3	1.7	0.0	44.9	54.4
Ontario, Canada	506	22.5	72.0	22.5	4.5	0.0	0.9	0.0	22.1	23.0
Quebec, Canada	557	34.6	61.9	34.6	2.6	0.2	0.7	0.1	36.6	32.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041065A - M08\_04A)  
 Label: Circle with a 3/8 of the area shaded  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	585	15.4	30.0	15.4	15.4	14.4	22.0	2.7	13.5	17.3
Armenia	591	36.2	20.0	16.4	36.2	9.0	18.1	0.4	40.5	32.7
Australia	577	46.2	15.9	19.8	46.2	14.9	3.2	0.0	44.1	48.1
Austria	689	39.6	17.8	16.6	39.6	12.9	13.2	0.0	43.0	36.0
Chinese Taipei	590	58.1	10.2	14.1	58.1	11.6	6.0	0.0	58.6	57.7
Colombia	689	13.3	40.7	20.7	13.3	10.0	12.3	3.0	12.6	14.1
Czech Republic	610	18.8	24.0	13.4	18.8	11.7	32.1	0.0	15.0	21.5
Denmark	505	41.0	18.8	21.8	41.0	7.0	10.6	0.7	45.3	36.5
El Salvador	594	16.1	39.2	18.3	16.1	11.4	12.5	2.7	14.8	17.3
England	622	49.2	13.9	20.2	49.2	10.9	5.8	0.0	45.8	52.3
Georgia	571	19.7	35.1	14.6	19.7	8.8	20.8	1.0	15.7	22.6
Germany	746	32.7	14.6	29.2	32.7	9.5	13.9	0.2	28.6	36.1
Hong Kong SAR	544	73.0	7.7	8.6	73.0	7.3	3.4	0.0	73.7	72.5
Hungary	574	36.4	20.3	21.7	36.4	11.4	9.8	0.4	37.8	34.9
Iran, Islamic Rep. of	542	12.9	49.1	10.5	12.9	10.7	16.1	0.7	12.8	12.9
Italy	634	42.8	18.2	16.5	42.8	13.7	8.8	0.0	44.5	41.4
Japan	633	58.3	13.0	12.3	58.3	12.5	3.9	0.0	60.4	56.3
Kazakhstan	567	41.4	29.4	14.6	41.4	13.0	1.6	0.0	40.5	42.3
Kuwait	534	13.7	34.4	22.7	13.7	9.9	19.1	0.2	12.6	14.7
Latvia	563	40.7	22.0	17.5	40.7	8.7	11.1	0.0	41.9	39.5
Lithuania	561	46.6	21.9	17.8	46.6	7.2	6.6	0.0	50.1	43.4
Morocco	554	7.4	40.9	8.0	7.4	16.0	26.0	1.7	7.0	8.0
Netherlands	483	47.4	19.5	17.1	47.4	13.8	2.3	0.0	50.8	44.1
New Zealand	714	39.7	17.6	25.2	39.7	11.1	5.7	0.7	37.4	41.9
Norway	569	28.8	20.8	24.1	28.8	13.9	12.3	0.1	32.0	25.4
Qatar	990	13.9	36.4	23.1	13.9	12.3	13.5	0.8	13.3	14.5
Russian Federation	638	39.5	26.8	14.4	39.5	13.1	6.1	0.0	39.0	40.0
Scotland	560	33.0	24.4	20.3	33.0	16.3	5.9	0.2	31.9	34.1
Singapore	723	69.9	9.8	11.4	69.9	6.5	2.4	0.0	73.9	66.1
Slovak Republic	716	26.4	32.5	16.2	26.4	12.1	12.7	0.0	25.4	27.4
Slovenia	619	32.4	28.9	19.1	32.4	9.8	9.8	0.0	31.0	33.6
Sweden	660	31.6	16.4	22.5	31.6	11.6	17.9	0.0	31.0	32.3
Tunisia	591	13.2	24.2	9.6	13.2	14.6	35.3	3.2	11.0	15.3
Ukraine	610	27.4	26.3	22.6	27.4	16.8	6.8	0.1	26.7	28.1
United States	1131	50.9	15.0	18.8	50.9	12.7	2.7	0.0	51.6	50.1
Yemen	822	16.5	31.2	13.4	16.5	10.5	26.4	2.0	12.7	19.6
International Avg.	636	34.2	24.1	17.5	34.2	11.6	12.1	0.6	34.1	34.2
Alberta, Canada	589	46.4	17.7	16.5	46.4	15.9	3.4	0.1	40.0	52.0
British Columbia, Canada	606	41.2	16.9	21.8	41.2	13.4	6.2	0.5	41.8	40.6
Dubai, UAE	435	27.1	27.6	15.9	27.1	11.3	18.0	0.1	33.5	21.0
Massachusetts, US	253	70.3	6.2	12.9	70.3	8.7	1.8	0.0	72.4	68.5
Minnesota, US	268	59.5	14.5	15.1	59.5	8.7	2.2	0.0	61.2	57.7
Ontario, Canada	506	39.4	22.6	19.7	39.4	15.3	3.0	0.0	38.6	40.2
Quebec, Canada	557	47.7	14.3	21.7	47.7	9.2	7.0	0.1	47.5	47.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M041065B - M08\_04B)  
 Label: Give reason for your selection  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	599	1.9	1.9	2.6	1.9	3.3	0.3	44.8	40.1	3.1	8.4	7.8	8.9
Armenia	593	12.1	1.1	0.9	0.0	0.4	0.0	56.6	28.5	0.5	14.0	16.4	12.1
Australia	579	18.8	1.2	1.1	3.1	2.3	1.4	65.7	6.3	0.0	24.2	27.6	21.1
Austria	689	5.1	5.3	0.3	0.0	0.4	0.5	43.2	45.2	0.0	10.7	12.4	9.0
Chinese Taipei	590	31.1	3.5	1.4	4.0	6.5	2.0	37.6	13.8	0.0	40.1	44.1	36.2
Colombia	689	2.3	0.0	0.0	1.2	2.3	0.1	57.2	33.2	3.7	3.5	3.1	3.9
Czech Republic	611	3.8	0.6	0.3	0.5	0.6	0.1	45.3	48.6	0.3	5.2	4.0	6.0
Denmark	503	22.9	0.2	0.3	2.2	4.9	1.1	41.6	25.9	0.8	25.6	32.0	18.9
El Salvador	594	2.5	0.1	0.5	0.5	1.0	0.1	37.7	53.9	3.7	3.6	3.2	3.9
England	622	18.1	2.9	2.5	1.6	4.1	5.5	42.5	22.7	0.0	25.2	27.5	23.0
Georgia	571	5.0	0.1	2.6	0.5	1.0	0.0	17.0	72.0	1.8	8.2	9.1	7.6
Germany	746	1.9	2.9	0.5	0.7	3.4	3.0	74.8	12.4	0.2	6.1	6.7	5.6
Hong Kong SAR	544	50.2	0.8	1.6	0.6	7.8	0.9	26.6	11.6	0.0	53.1	58.3	48.7
Hungary	574	20.6	0.3	0.0	1.0	1.8	0.8	42.8	32.3	0.4	21.9	25.9	17.6
Iran, Islamic Rep. of	542	4.3	0.5	0.0	0.0	0.1	0.0	39.9	54.3	0.8	4.9	6.0	3.7
Italy	635	30.9	0.6	0.0	2.5	0.5	0.5	56.3	8.7	0.0	34.0	35.9	32.4
Japan	633	38.2	3.7	1.8	1.2	3.4	3.2	39.7	8.8	0.0	45.0	49.8	40.1
Kazakhstan	567	15.1	0.0	0.2	0.6	2.3	0.2	72.9	8.7	0.0	15.9	14.2	17.9
Kuwait	534	0.5	0.2	0.3	0.2	0.0	0.0	22.7	75.6	0.6	1.1	1.7	0.5
Latvia	563	19.3	0.1	0.5	2.9	14.1	0.2	36.4	26.4	0.0	22.8	26.0	19.5
Lithuania	561	24.5	0.4	0.2	2.7	5.3	0.3	30.9	35.5	0.0	27.9	35.9	20.8
Morocco	566	0.2	0.1	0.0	0.4	0.0	0.2	33.4	62.5	3.1	0.7	1.4	0.0
Netherlands	483	26.3	1.2	2.1	2.4	2.3	2.6	44.8	18.4	0.0	32.0	35.4	28.7
New Zealand	714	11.0	3.4	1.0	1.7	3.8	4.1	47.7	26.7	0.7	17.1	21.8	12.6
Norway	569	10.0	0.2	0.4	2.1	5.9	0.9	50.8	29.7	0.1	12.7	13.3	12.0
Qatar	991	1.4	0.0	0.3	0.1	1.5	0.1	22.3	73.4	0.9	1.8	2.4	1.2
Russian Federation	638	17.9	0.2	0.6	1.1	0.9	0.5	23.6	55.2	0.0	19.8	22.3	17.0
Scotland	560	8.2	0.5	0.6	0.5	3.5	2.9	48.3	35.3	0.2	9.7	12.2	6.9
Singapore	723	51.8	2.0	1.0	4.8	4.9	1.6	29.7	4.1	0.0	59.7	64.1	55.6
Slovak Republic	716	11.8	0.1	0.3	0.3	1.0	0.1	37.8	48.7	0.0	12.4	13.2	11.5
Slovenia	619	7.4	0.4	0.4	0.1	14.6	0.7	51.3	24.9	0.0	8.4	9.9	7.0
Sweden	660	5.7	0.5	0.1	1.0	1.4	0.7	51.3	39.0	0.2	7.3	9.3	5.1
Tunisia	591	0.0	0.0	0.0	0.7	0.9	0.0	50.6	43.6	4.2	0.7	1.5	0.0
Ukraine	610	5.5	0.5	0.0	0.3	4.4	0.0	31.0	58.2	0.1	6.3	7.0	5.8
United States	1131	29.4	0.2	0.6	3.5	4.2	1.6	58.6	1.7	0.1	33.8	37.6	29.9
Yemen	822	0.0	0.0	0.0	0.0	0.2	0.0	18.3	79.0	2.5	0.0	0.1	0.0
International Avg.	637	14.3	1.0	0.7	1.3	3.2	1.0	42.5	35.1	0.8	17.3	19.4	15.3
Alberta, Canada	589	26.7	1.3	1.3	2.0	3.1	1.2	43.6	20.5	0.1	31.4	33.0	30.1
British Columbia, Canada	606	19.2	0.4	0.5	3.4	4.8	1.7	49.2	20.3	0.5	23.5	31.0	16.4
Dubai, UAE	436	13.3	0.9	1.7	1.7	1.6	0.0	45.0	35.7	0.1	17.6	21.2	14.3
Massachusetts, US	253	43.2	0.8	2.3	1.6	5.1	3.4	43.6	0.0	0.0	48.0	55.3	41.3
Minnesota, US	268	31.8	0.0	1.1	3.1	3.9	1.5	57.8	0.7	0.0	36.1	45.5	26.0
Ontario, Canada	506	17.7	0.8	1.4	2.7	5.2	2.3	51.9	18.2	0.0	22.5	21.8	23.2
Quebec, Canada	557	28.4	0.0	0.5	3.5	3.1	1.6	46.7	16.2	0.1	32.3	34.9	29.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041096 - M08\_05)  
 Label: Number to go into the box  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	586	18.9	48.0	13.5	7.1	18.9	9.4	3.1	20.5	17.3
Armenia	595	72.2	6.4	10.9	1.7	72.2	8.3	0.5	71.9	72.5
Australia	578	25.9	50.6	16.8	4.5	25.9	2.2	0.0	26.8	25.1
Austria	689	32.0	45.1	18.4	1.6	32.0	2.8	0.0	32.2	31.8
Chinese Taipei	590	83.2	12.0	4.5	0.3	83.2	0.0	0.0	87.2	79.2
Colombia	689	16.0	55.6	11.5	5.3	16.0	7.6	3.9	17.2	14.5
Czech Republic	611	38.3	39.5	15.9	4.2	38.3	1.9	0.3	44.1	34.3
Denmark	505	19.8	62.3	9.2	3.8	19.8	4.0	0.8	22.3	17.2
El Salvador	594	18.0	47.4	15.0	7.2	18.0	8.2	4.1	14.1	21.7
England	622	44.8	38.2	11.0	3.4	44.8	2.7	0.0	45.5	44.0
Georgia	571	59.6	12.0	16.5	4.7	59.6	5.3	1.8	63.9	56.5
Germany	746	52.1	33.1	11.1	2.0	52.1	1.6	0.2	55.2	49.5
Hong Kong SAR	544	74.3	9.5	12.6	3.3	74.3	0.3	0.0	73.1	75.3
Hungary	574	59.2	22.5	12.3	1.8	59.2	3.7	0.4	61.8	56.6
Iran, Islamic Rep. of	542	30.7	42.7	14.1	6.1	30.7	5.5	0.9	32.2	29.3
Italy	634	51.9	27.8	12.4	2.6	51.9	5.4	0.0	55.4	48.8
Japan	633	66.3	15.7	14.6	2.7	66.3	0.7	0.0	67.5	65.1
Kazakhstan	567	84.2	3.5	9.3	2.8	84.2	0.2	0.0	83.0	85.5
Kuwait	534	12.5	50.4	16.4	11.7	12.5	8.1	0.8	13.5	11.5
Latvia	563	70.8	12.7	12.1	2.1	70.8	2.3	0.0	75.1	66.3
Lithuania	561	62.0	22.6	13.2	1.1	62.0	1.1	0.0	67.0	57.7
Morocco	555	22.0	39.6	15.8	9.9	22.0	9.4	3.3	22.0	21.7
Netherlands	483	39.8	44.7	9.7	4.3	39.8	1.5	0.0	39.8	39.8
New Zealand	714	20.7	50.2	18.6	8.1	20.7	1.8	0.7	21.7	19.7
Norway	569	19.9	53.5	18.8	4.5	19.9	3.1	0.3	24.8	14.5
Qatar	990	10.2	53.7	19.1	10.5	10.2	5.5	1.0	12.8	7.4
Russian Federation	638	78.9	4.5	14.3	1.2	78.9	1.1	0.0	77.0	81.1
Scotland	560	27.0	47.7	18.0	5.0	27.0	2.1	0.2	28.1	25.9
Singapore	723	83.8	12.0	3.4	0.5	83.8	0.2	0.0	85.0	82.7
Slovak Republic	716	60.8	21.6	10.5	4.0	60.8	3.1	0.0	66.7	54.6
Slovenia	619	49.2	31.0	14.4	2.8	49.2	2.5	0.0	50.0	48.5
Sweden	660	23.5	55.1	14.3	5.8	23.5	1.1	0.2	23.0	24.1
Tunisia	591	23.6	38.5	12.8	9.3	23.6	11.6	4.2	25.7	21.7
Ukraine	610	61.0	15.5	18.3	3.4	61.0	1.5	0.3	69.6	53.6
United States	1131	42.4	44.6	9.2	2.9	42.4	0.8	0.1	45.0	39.8
Yemen	822	18.8	24.4	26.0	18.3	18.8	9.6	3.0	20.8	17.2
International Avg.	636	43.7	33.2	13.7	4.7	43.7	3.8	0.8	45.6	42.0
Alberta, Canada	589	28.7	44.5	19.6	4.3	28.7	2.7	0.1	29.9	27.7
British Columbia, Canada	606	31.2	42.1	15.8	6.9	31.2	3.5	0.5	32.2	30.2
Dubai, UAE	437	32.2	48.1	9.7	5.9	32.2	4.1	0.1	37.1	27.8
Massachusetts, US	253	47.9	38.5	8.3	4.9	47.9	0.4	0.0	49.3	46.7
Minnesota, US	268	43.2	46.6	7.8	1.9	43.2	0.4	0.0	48.5	37.6
Ontario, Canada	506	25.2	50.6	14.4	7.3	25.2	2.6	0.0	27.0	23.2
Quebec, Canada	557	38.9	39.8	11.4	6.3	38.9	3.3	0.2	41.1	36.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041125 - M08\_06)  
 Label: Rule to get numbers in column B  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	576	20.2	20.2	26.2	15.8	20.3	13.7	3.8	19.4	20.9
Armenia	575	49.4	49.4	11.8	3.4	9.2	25.7	0.6	52.3	47.0
Australia	577	39.4	39.4	21.4	11.8	21.4	6.0	0.0	42.4	36.6
Austria	689	22.0	22.0	23.2	9.3	19.1	26.4	0.0	20.7	23.4
Chinese Taipei	590	52.8	52.8	24.1	7.8	12.2	3.1	0.0	50.0	55.5
Colombia	689	21.3	21.3	17.7	11.5	31.3	13.9	4.3	17.8	25.7
Czech Republic	611	36.3	36.3	21.0	7.7	14.3	20.4	0.3	34.7	37.5
Denmark	503	43.8	43.8	23.4	7.1	11.2	13.6	0.8	43.2	44.5
El Salvador	594	17.7	17.7	22.8	17.8	24.8	12.6	4.3	19.2	16.2
England	622	46.1	46.1	21.3	11.1	12.6	8.9	0.0	47.7	44.6
Georgia	571	42.0	42.0	17.5	9.1	13.8	15.7	1.8	41.9	42.2
Germany	746	33.4	33.4	22.7	12.0	15.3	16.4	0.2	29.0	37.1
Hong Kong SAR	544	69.0	69.0	16.3	7.2	6.4	1.1	0.0	65.9	71.6
Hungary	574	49.9	49.9	21.8	6.1	9.7	12.0	0.5	52.2	47.5
Iran, Islamic Rep. of	542	25.9	25.9	19.7	10.9	21.7	20.3	1.5	28.9	23.0
Italy	630	47.3	47.3	21.3	5.4	13.2	12.4	0.3	47.9	46.8
Japan	633	56.3	56.3	20.0	10.8	9.4	3.5	0.0	56.6	56.1
Kazakhstan	567	65.7	65.7	13.3	5.2	14.0	1.7	0.0	63.2	68.5
Kuwait	534	18.6	18.6	20.3	16.7	23.9	19.6	0.8	17.1	20.2
Latvia	563	27.0	27.0	33.6	9.9	18.4	11.0	0.0	27.6	26.5
Lithuania	561	46.1	46.1	21.9	8.5	15.1	8.4	0.0	42.9	48.9
Morocco	547	14.1	14.1	20.0	23.4	21.6	17.5	3.4	13.0	15.1
Netherlands	483	35.8	35.8	26.6	15.9	18.8	2.9	0.0	34.2	37.4
New Zealand	714	32.2	32.2	25.7	14.1	18.5	8.8	0.7	35.1	29.5
Norway	569	24.8	24.8	25.8	15.0	19.6	14.5	0.3	27.6	21.9
Qatar	990	21.2	21.2	27.3	19.3	21.5	9.4	1.2	20.9	21.5
Russian Federation	638	57.0	57.0	16.0	7.0	14.5	5.6	0.0	58.0	55.9
Scotland	560	32.0	32.0	23.9	15.0	16.8	11.5	0.8	31.8	32.2
Singapore	723	60.7	60.7	17.5	13.0	8.1	0.7	0.0	61.9	59.6
Slovak Republic	716	38.8	38.8	18.6	10.1	15.1	17.4	0.0	40.0	37.5
Slovenia	619	31.7	31.7	22.9	10.2	21.0	14.2	0.0	32.5	31.1
Sweden	660	22.0	22.0	23.7	17.2	17.3	19.6	0.2	19.3	24.9
Tunisia	591	14.4	14.4	20.3	20.5	17.6	22.5	4.7	12.9	15.9
Ukraine	610	32.5	32.5	19.6	12.0	26.4	9.2	0.3	32.9	32.2
United States	1131	52.6	52.6	21.7	8.4	15.1	2.0	0.2	49.9	55.2
Yemen	825	12.7	12.7	24.3	25.7	19.8	14.4	3.2	14.3	11.4
International Avg.	635	36.5	36.5	21.5	12.0	16.9	12.1	1.0	36.2	36.7
Alberta, Canada	589	36.1	36.1	28.1	11.6	18.8	5.1	0.2	34.2	37.9
British Columbia, Canada	606	41.0	41.0	22.8	10.7	15.7	9.3	0.5	37.9	44.0
Dubai, UAE	437	36.6	36.6	21.2	9.5	22.5	9.8	0.5	40.0	33.6
Massachusetts, US	253	61.1	61.1	22.6	6.9	7.9	1.5	0.0	62.2	60.0
Minnesota, US	268	61.5	61.5	19.2	8.6	9.9	0.7	0.0	64.9	58.0
Ontario, Canada	506	40.5	40.5	24.2	11.7	17.4	5.7	0.6	42.1	38.9
Quebec, Canada	557	35.9	35.9	22.8	11.5	18.2	11.2	0.3	34.3	37.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041135 - M08\_07)  
 Label: Diagram of a pair of parallel lines  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	554	62.0	62.0	10.2	8.1	9.5	5.7	4.7	65.2	58.5
Armenia	589	67.3	67.3	9.0	6.9	7.6	7.5	1.8	68.7	66.1
Australia	578	84.2	84.2	5.1	5.0	3.6	2.1	0.0	83.2	85.1
Austria	689	82.9	82.9	5.9	5.7	2.2	3.3	0.0	83.5	82.2
Chinese Taipei	590	73.4	73.4	4.7	16.6	3.0	2.3	0.0	74.7	72.1
Colombia	689	54.9	54.9	14.2	10.0	9.4	4.7	6.8	55.0	54.9
Czech Republic	611	91.8	91.8	0.9	2.8	2.5	1.6	0.5	92.4	91.4
Denmark	499	82.9	82.9	6.5	3.4	2.8	3.0	1.4	82.9	82.9
El Salvador	594	64.7	64.7	10.2	6.7	8.6	4.2	5.6	64.5	64.9
England	622	80.8	80.8	9.3	4.5	4.1	1.1	0.3	83.3	78.5
Georgia	571	53.8	53.8	7.1	9.2	17.3	10.8	1.8	55.7	52.4
Germany	746	83.2	83.2	6.3	4.1	3.0	3.2	0.2	81.1	84.9
Hong Kong SAR	544	95.5	95.5	0.9	2.7	0.2	0.7	0.0	95.4	95.5
Hungary	574	77.7	77.7	8.3	8.2	1.9	3.2	0.6	76.9	78.6
Iran, Islamic Rep. of	542	90.1	90.1	1.1	2.0	1.6	3.2	1.9	91.1	89.3
Italy	633	87.1	87.1	4.0	3.1	3.2	2.0	0.6	85.1	88.8
Japan	633	55.9	55.9	9.0	24.2	8.1	2.8	0.0	56.6	55.3
Kazakhstan	567	84.1	84.1	2.8	6.8	6.3	0.0	0.0	80.5	88.2
Kuwait	534	41.1	41.1	18.8	12.9	14.1	11.3	1.8	43.2	39.0
Latvia	563	56.5	56.5	11.1	8.9	19.2	4.3	0.0	56.1	57.0
Lithuania	560	55.7	55.7	17.0	13.3	7.3	6.5	0.1	59.0	52.8
Morocco	511	49.5	49.5	12.2	12.6	11.1	10.3	4.3	46.7	52.3
Netherlands	483	57.9	57.9	22.4	7.5	10.1	2.1	0.0	57.5	58.3
New Zealand	714	68.8	68.8	12.7	8.8	6.1	2.9	0.7	68.9	68.7
Norway	569	62.9	62.9	12.7	12.2	5.7	5.3	1.1	64.4	61.3
Qatar	991	45.7	45.7	18.0	13.0	15.2	6.5	1.5	48.6	42.7
Russian Federation	638	83.9	83.9	6.5	4.4	4.3	0.8	0.1	84.3	83.4
Scotland	560	63.9	63.9	16.3	8.6	6.5	3.9	0.8	62.9	65.0
Singapore	723	95.7	95.7	0.9	2.4	1.1	0.0	0.0	97.2	94.3
Slovak Republic	716	65.7	65.7	7.6	18.3	3.2	4.7	0.6	68.2	63.1
Slovenia	619	91.8	91.8	3.8	1.1	1.5	1.4	0.3	91.2	92.4
Sweden	660	57.1	57.1	14.0	11.0	12.1	5.6	0.3	59.1	54.8
Tunisia	591	50.3	50.3	5.9	6.7	8.6	23.4	5.0	56.4	44.5
Ukraine	610	69.3	69.3	7.1	16.5	5.6	1.2	0.3	74.9	64.3
United States	1131	91.9	91.9	2.0	1.4	3.3	1.2	0.3	93.0	90.7
Yemen	825	39.1	39.1	10.7	15.6	11.9	18.3	4.4	46.5	33.3
International Avg.	634	70.0	70.0	8.8	8.5	6.7	4.8	1.3	70.9	69.1
Alberta, Canada	589	75.1	75.1	9.9	8.1	2.9	3.6	0.4	76.7	73.7
British Columbia, Canada	606	74.9	74.9	8.9	7.0	5.2	3.0	0.9	77.7	72.2
Dubai, UAE	437	69.4	69.4	8.5	9.0	7.0	5.6	0.5	73.3	65.7
Massachusetts, US	253	94.3	94.3	1.5	0.4	3.4	0.3	0.0	91.6	96.8
Minnesota, US	268	94.4	94.4	2.4	0.9	2.4	0.0	0.0	97.1	91.4
Ontario, Canada	506	85.2	85.2	7.8	3.4	2.1	0.9	0.6	82.5	88.0
Quebec, Canada	557	88.4	88.4	2.9	3.5	1.2	3.7	0.3	88.7	88.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041257 - M08\_08)  
 Label: Statements about a rectangle  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	.	.	.	.	.	.	.	.	.
Armenia	593	34.6	17.8	32.8	13.1	1.7	34.6	39.2	30.9
Australia	579	38.8	32.2	27.6	1.0	0.4	38.8	39.3	38.4
Austria	689	30.1	35.2	33.6	1.1	0.0	30.1	28.5	31.7
Chinese Taipei	590	49.0	35.6	15.1	0.4	0.0	49.0	49.0	49.0
Colombia	689	12.8	13.6	61.4	4.5	7.6	12.8	11.0	15.0
Czech Republic	611	29.2	29.8	36.7	3.8	0.5	29.2	28.7	29.5
Denmark	504	43.3	29.1	24.1	2.1	1.4	43.3	40.1	46.6
El Salvador	594	4.8	17.3	62.5	9.3	6.1	4.8	4.5	5.1
England	622	54.4	28.9	15.7	0.8	0.3	54.4	56.5	52.4
Georgia	571	16.8	9.4	54.7	17.1	1.9	16.8	16.1	17.4
Germany	746	24.3	32.4	41.4	1.6	0.3	24.3	21.8	26.5
Hong Kong SAR	544	71.7	12.9	15.1	0.4	0.0	71.7	74.8	69.0
Hungary	574	33.6	32.0	31.5	1.9	0.9	33.6	36.9	30.1
Iran, Islamic Rep. of	542	24.2	37.8	34.0	2.0	1.9	24.2	25.4	23.2
Italy	635	53.7	24.1	19.9	1.7	0.6	53.7	54.0	53.4
Japan	633	50.1	23.0	26.8	0.1	0.0	50.1	54.9	45.4
Kazakhstan	567	52.7	17.9	27.3	2.1	0.0	52.7	47.9	58.1
Kuwait	534	13.5	30.8	46.1	7.8	1.8	13.5	17.6	9.3
Latvia	563	33.8	42.7	22.7	0.8	0.0	33.8	37.8	29.6
Lithuania	561	30.5	39.0	27.1	3.4	0.1	30.5	35.0	26.6
Morocco	566	17.7	58.4	14.7	5.1	4.2	17.7	17.6	18.0
Netherlands	483	19.6	43.7	35.9	0.8	0.0	19.6	23.4	15.9
New Zealand	714	21.0	41.8	34.9	1.5	0.7	21.0	23.5	18.7
Norway	569	27.0	26.1	43.8	1.9	1.2	27.0	29.0	24.8
Qatar	991	6.7	25.7	59.5	6.4	1.6	6.7	7.3	6.2
Russian Federation	638	52.8	25.1	20.3	1.8	0.1	52.8	57.9	47.0
Scotland	560	31.5	32.8	33.7	1.2	0.8	31.5	30.2	32.8
Singapore	723	77.6	15.7	6.7	0.0	0.0	77.6	76.2	79.0
Slovak Republic	716	35.6	35.9	25.2	2.7	0.6	35.6	37.3	33.8
Slovenia	619	42.8	31.3	24.0	1.6	0.3	42.8	40.8	44.7
Sweden	660	25.6	34.6	37.5	2.1	0.3	25.6	25.4	25.8
Tunisia	591	14.5	29.1	48.7	2.0	5.7	14.5	14.2	14.7
Ukraine	610	20.9	18.8	52.9	7.2	0.3	20.9	26.4	16.1
United States	1131	48.8	27.0	22.9	0.9	0.3	48.8	47.5	50.2
Yemen	824	2.7	6.6	73.6	11.2	5.8	2.7	3.1	2.4
International Avg.	638	32.8	28.4	34.0	3.5	1.4	32.8	33.7	31.9
Alberta, Canada	589	25.8	38.4	33.9	1.6	0.4	25.8	24.6	26.8
British Columbia, Canada	606	34.4	37.5	24.9	2.3	0.9	34.4	35.3	33.5
Dubai, UAE	437	23.5	37.1	36.3	2.6	0.5	23.5	27.1	19.9
Massachusetts, US	253	67.5	22.1	10.0	0.3	0.0	67.5	64.7	70.1
Minnesota, US	268	59.8	24.3	15.9	0.0	0.0	59.8	59.2	60.5
Ontario, Canada	506	44.8	38.6	15.3	0.6	0.6	44.8	43.1	46.6
Quebec, Canada	557	51.5	25.4	19.9	2.9	0.3	51.5	52.4	50.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041268 - M08\_09)  
 Label: What is the length of side A  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	589	11.6	17.7	11.6	29.6	23.1	12.1	5.8	12.1	11.1
Armenia	590	36.7	23.2	36.7	10.3	12.7	15.2	1.9	36.0	37.2
Australia	576	33.4	20.5	33.4	25.9	14.4	5.3	0.4	32.4	34.3
Austria	689	25.7	17.6	25.7	21.7	20.6	14.4	0.0	22.2	29.3
Chinese Taipei	590	45.9	14.6	45.9	18.3	19.8	1.5	0.0	39.7	51.8
Colombia	689	16.3	27.1	16.3	18.8	19.0	9.8	9.0	14.0	19.1
Czech Republic	611	27.4	24.4	27.4	18.8	16.8	11.9	0.7	23.4	30.2
Denmark	505	34.5	19.7	34.5	21.0	10.5	12.9	1.4	34.0	35.1
El Salvador	594	19.8	29.2	19.8	19.6	16.8	7.1	7.5	22.1	17.6
England	622	41.1	17.1	41.1	20.7	13.7	7.2	0.3	41.5	40.7
Georgia	570	29.5	17.0	29.5	17.2	17.2	14.9	4.4	30.5	28.7
Germany	746	32.7	19.5	32.7	22.0	14.3	10.7	0.7	28.0	36.8
Hong Kong SAR	544	58.4	14.3	58.4	14.7	11.8	0.8	0.0	52.3	63.5
Hungary	574	27.6	20.5	27.6	22.6	20.1	8.3	0.9	24.5	30.8
Iran, Islamic Rep. of	542	20.7	31.1	20.7	18.8	18.1	8.9	2.4	18.4	22.9
Italy	634	35.4	17.9	35.4	16.7	17.1	11.7	1.2	34.0	36.7
Japan	633	44.7	16.3	44.7	15.2	21.8	2.1	0.0	43.6	45.8
Kazakhstan	567	50.1	22.4	50.1	17.5	9.2	0.8	0.0	48.1	52.3
Kuwait	534	18.3	19.0	18.3	27.3	19.8	12.6	2.9	16.0	20.7
Latvia	563	41.5	23.1	41.5	14.5	17.1	3.8	0.0	39.9	43.3
Lithuania	561	33.8	28.2	33.8	16.9	15.9	4.9	0.2	37.7	30.3
Morocco	541	22.2	18.5	22.2	24.7	16.2	13.6	4.8	19.7	25.3
Netherlands	483	33.4	18.4	33.4	32.1	13.8	2.2	0.0	30.4	36.3
New Zealand	714	29.1	26.7	29.1	25.2	12.1	6.2	0.7	29.1	29.1
Norway	569	27.9	22.1	27.9	21.4	14.9	12.3	1.4	29.1	26.6
Qatar	990	19.8	25.7	19.8	21.8	22.7	8.1	1.9	18.7	21.0
Russian Federation	638	44.5	18.1	44.5	16.6	15.1	5.5	0.1	45.7	43.2
Scotland	560	29.8	24.3	29.8	23.9	12.4	8.8	0.8	28.5	31.4
Singapore	723	65.1	13.0	65.1	14.4	6.8	0.7	0.0	62.6	67.5
Slovak Republic	716	33.8	26.9	33.8	15.7	15.0	8.1	0.6	37.2	30.2
Slovenia	619	27.6	28.3	27.6	20.2	14.3	8.9	0.8	22.6	32.1
Sweden	660	38.0	19.9	38.0	20.6	10.8	9.5	1.2	36.1	40.2
Tunisia	591	15.7	18.9	15.7	28.3	14.6	16.5	6.0	17.6	13.9
Ukraine	610	27.4	30.0	27.4	16.9	18.3	7.1	0.4	25.4	29.1
United States	1131	41.1	19.2	41.1	20.5	16.3	2.5	0.4	40.3	41.9
Yemen	823	18.1	19.6	18.1	23.6	20.2	11.9	6.6	16.8	19.1
International Avg.	636	32.2	21.4	32.2	20.4	15.9	8.3	1.8	30.8	33.5
Alberta, Canada	589	32.5	22.3	32.5	24.0	16.6	4.2	0.4	29.7	35.0
British Columbia, Canada	605	33.1	22.1	33.1	21.6	14.4	7.7	1.0	30.8	35.3
Dubai, UAE	437	29.9	25.8	29.9	18.3	15.9	9.4	0.8	31.8	28.0
Massachusetts, US	253	49.6	18.4	49.6	13.4	17.0	1.3	0.3	47.3	51.7
Minnesota, US	268	44.2	18.9	44.2	14.9	21.4	0.6	0.0	43.3	45.2
Ontario, Canada	506	35.5	26.3	35.5	20.4	14.0	3.2	0.6	29.8	41.5
Quebec, Canada	557	30.8	17.8	30.8	22.9	15.7	12.5	0.3	27.2	34.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041151 - M08\_10)  
 Label: Shape that makes a cube when folded  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	555	76.5	4.8	3.5	76.5	4.4	3.2	7.6	79.7	73.1
Armenia	595	38.9	14.3	13.4	38.9	15.9	15.3	2.2	38.8	38.9
Australia	578	89.9	2.4	2.5	89.9	3.2	1.6	0.4	86.4	93.2
Austria	689	81.3	5.7	7.3	81.3	3.1	2.7	0.0	81.5	81.2
Chinese Taipei	590	83.8	3.4	2.3	83.8	5.3	5.3	0.0	82.8	84.7
Colombia	689	34.8	10.1	16.3	34.8	24.9	3.6	10.3	34.2	35.7
Czech Republic	611	40.9	12.2	17.3	40.9	17.6	10.9	1.1	36.9	43.6
Denmark	501	72.4	5.7	9.4	72.4	8.4	2.1	1.9	72.4	72.4
El Salvador	594	46.2	7.5	12.2	46.2	23.2	2.6	8.3	44.8	47.5
England	622	86.9	3.9	4.0	86.9	3.7	1.1	0.3	87.2	86.7
Georgia	571	50.4	14.6	6.6	50.4	16.2	7.4	4.9	45.2	54.1
Germany	746	82.8	1.3	2.9	82.8	3.6	8.6	0.9	83.4	82.3
Hong Kong SAR	544	82.6	3.6	8.1	82.6	4.5	1.1	0.0	82.7	82.6
Hungary	574	71.8	5.6	10.3	71.8	7.5	3.6	1.2	70.5	73.2
Iran, Islamic Rep. of	542	61.7	7.9	16.9	61.7	5.3	4.8	3.3	65.7	57.9
Italy	633	63.2	6.1	13.9	63.2	12.5	2.4	1.9	66.8	60.0
Japan	633	77.8	4.6	7.5	77.8	8.2	1.8	0.1	76.6	79.0
Kazakhstan	567	55.7	11.6	15.5	55.7	17.2	0.0	0.0	55.8	55.5
Kuwait	534	23.5	17.0	28.4	23.5	19.2	7.3	4.5	23.5	23.6
Latvia	563	62.5	5.7	17.7	62.5	11.5	2.7	0.0	60.4	64.7
Lithuania	561	83.3	6.4	6.0	83.3	2.7	1.2	0.3	85.1	81.7
Morocco	519	57.3	8.3	10.2	57.3	11.3	6.7	6.2	59.6	54.4
Netherlands	483	69.0	5.5	12.5	69.0	10.6	2.5	0.0	68.4	69.6
New Zealand	714	84.9	3.1	5.8	84.9	3.4	2.1	0.7	84.4	85.4
Norway	569	71.2	5.5	13.0	71.2	5.6	2.8	1.8	77.7	64.3
Qatar	991	24.6	21.3	21.5	24.6	23.8	6.4	2.4	23.3	25.9
Russian Federation	638	58.6	11.6	13.1	58.6	11.2	5.3	0.1	58.9	58.3
Scotland	560	73.3	5.6	11.9	73.3	6.8	1.4	1.0	77.6	68.5
Singapore	723	74.1	5.3	14.3	74.1	6.2	0.2	0.0	74.0	74.1
Slovak Republic	716	43.7	15.8	16.1	43.7	15.7	8.1	0.6	46.7	40.7
Slovenia	619	60.0	8.9	16.2	60.0	9.8	4.0	1.0	62.7	57.6
Sweden	660	60.4	4.3	21.7	60.4	8.6	3.2	1.7	62.0	58.7
Tunisia	591	32.4	10.4	15.0	32.4	17.3	17.1	7.7	36.0	29.0
Ukraine	610	54.5	8.8	20.3	54.5	13.3	2.3	0.9	55.1	53.9
United States	1131	74.1	3.5	14.9	74.1	6.2	0.4	1.0	75.4	72.8
Yemen	824	22.9	14.8	15.3	22.9	22.0	18.0	6.9	19.4	25.7
International Avg.	634	61.9	8.0	12.3	61.9	10.8	4.7	2.3	62.3	61.4
Alberta, Canada	589	83.5	4.1	6.2	83.5	4.0	1.7	0.6	83.3	83.6
British Columbia, Canada	606	75.7	4.6	11.4	75.7	5.8	1.5	1.0	76.0	75.3
Dubai, UAE	437	47.8	10.1	20.2	47.8	15.9	4.8	1.2	55.8	40.4
Massachusetts, US	253	75.7	2.1	17.0	75.7	4.4	0.0	0.8	73.2	77.9
Minnesota, US	268	69.1	3.9	19.8	69.1	6.4	0.8	0.0	70.9	67.2
Ontario, Canada	506	83.1	5.9	6.9	83.1	2.9	0.6	0.6	81.7	84.5
Quebec, Canada	557	79.5	5.7	6.5	79.5	3.8	4.1	0.4	77.6	81.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041264 - M08\_11)  
 Label: What is the area of the triangle  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	586	38.1	38.1	20.1	18.0	12.3	3.9	7.6	37.4	38.9
Armenia	589	46.0	46.0	13.6	14.0	8.1	16.0	2.4	48.8	43.7
Australia	578	69.1	69.1	13.0	7.8	6.5	3.1	0.5	67.0	71.0
Austria	689	64.1	64.1	15.9	9.9	5.5	4.6	0.0	64.7	63.5
Chinese Taipei	590	86.8	86.8	4.8	6.3	1.9	0.3	0.0	88.1	85.5
Colombia	689	23.9	23.9	27.4	20.0	12.3	4.6	11.8	24.5	23.2
Czech Republic	611	51.7	51.7	16.4	14.4	8.8	7.6	1.1	50.5	52.6
Denmark	505	67.4	67.4	8.2	14.4	4.2	3.5	2.3	65.8	69.0
El Salvador	594	32.9	32.9	21.7	17.8	14.3	4.6	8.7	33.6	32.3
England	622	59.6	59.6	13.3	15.5	9.0	2.2	0.4	59.3	59.9
Georgia	571	34.1	34.1	22.3	16.2	10.7	10.8	5.9	30.6	36.7
Germany	746	61.9	61.9	12.8	15.8	6.0	2.6	0.9	62.1	61.7
Hong Kong SAR	544	80.4	80.4	7.2	10.7	0.9	0.7	0.0	82.0	79.1
Hungary	574	50.1	50.1	17.9	14.9	8.4	7.4	1.3	49.7	50.5
Iran, Islamic Rep. of	542	38.9	38.9	17.5	15.8	16.9	7.5	3.3	35.4	42.2
Italy	634	43.9	43.9	20.8	18.5	4.9	10.0	2.0	38.3	48.8
Japan	633	82.5	82.5	7.1	9.2	0.7	0.4	0.1	82.9	82.1
Kazakhstan	567	64.7	64.7	13.1	16.4	5.5	0.3	0.0	63.4	66.1
Kuwait	534	37.3	37.3	19.8	15.2	16.0	6.6	5.1	39.9	34.6
Latvia	563	51.0	51.0	16.4	21.2	8.6	2.8	0.0	47.3	55.0
Lithuania	561	56.2	56.2	11.0	20.7	9.9	1.9	0.3	54.0	58.1
Morocco	550	29.0	29.0	21.2	22.5	12.6	7.9	6.8	30.1	27.9
Netherlands	483	61.2	61.2	10.7	20.2	6.1	1.4	0.4	58.8	63.5
New Zealand	714	55.7	55.7	19.4	13.0	8.3	2.9	0.7	55.8	55.7
Norway	569	47.4	47.4	17.5	19.4	8.2	5.4	2.1	46.7	48.1
Qatar	991	34.2	34.2	26.1	18.6	14.1	4.2	2.8	33.7	34.8
Russian Federation	638	63.7	63.7	14.6	11.2	6.0	3.8	0.8	66.4	60.7
Scotland	560	64.1	64.1	16.1	7.7	4.9	6.1	1.2	59.4	69.4
Singapore	723	53.7	53.7	10.0	29.3	6.9	0.1	0.0	54.8	52.7
Slovak Republic	716	49.2	49.2	15.4	18.1	9.2	6.8	1.4	54.6	43.5
Slovenia	619	42.9	42.9	19.5	25.5	6.4	4.7	1.0	40.9	44.7
Sweden	660	39.7	39.7	18.8	26.6	6.7	6.5	1.7	38.1	41.5
Tunisia	591	26.8	26.8	19.4	21.9	9.0	13.6	9.4	27.4	26.2
Ukraine	610	48.8	48.8	21.4	14.3	11.0	3.4	1.1	47.7	49.7
United States	1131	60.5	60.5	14.6	16.2	6.6	1.1	1.0	59.5	61.6
Yemen	824	16.8	16.8	24.3	25.2	18.0	8.6	7.2	16.2	17.2
International Avg.	636	51.0	51.0	16.4	16.7	8.5	4.9	2.5	50.4	51.4
Alberta, Canada	589	62.2	62.2	16.1	12.5	6.5	2.1	0.6	61.7	62.6
British Columbia, Canada	606	52.3	52.3	21.2	12.7	8.0	4.8	1.0	55.6	49.1
Dubai, UAE	437	51.9	51.9	20.4	10.3	9.2	6.7	1.6	55.0	49.1
Massachusetts, US	253	74.4	74.4	7.6	14.0	2.5	0.7	0.8	72.6	76.0
Minnesota, US	268	67.6	67.6	8.8	14.0	7.3	1.9	0.4	68.7	66.4
Ontario, Canada	506	63.0	63.0	14.5	11.6	7.7	2.5	0.7	61.4	64.7
Quebec, Canada	557	65.0	65.0	11.1	12.4	5.5	5.5	0.4	64.9	65.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041182 - M08\_12)  
 Label: Complete the table  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	606	42.0	14.7	25.4	9.4	8.6	42.0	44.3	39.6
Armenia	592	61.0	9.1	18.5	7.8	3.6	61.0	68.4	55.0
Australia	579	91.9	3.4	2.3	1.9	0.5	91.9	94.4	89.5
Austria	689	86.9	6.2	3.9	2.6	0.4	86.9	86.0	87.8
Chinese Taipei	590	94.7	2.7	2.2	0.4	0.0	94.7	97.2	92.3
Colombia	689	49.8	7.9	18.2	10.7	13.4	49.8	49.1	50.6
Czech Republic	611	85.2	4.8	5.1	3.7	1.2	85.2	89.9	82.0
Denmark	504	88.6	3.9	2.7	1.8	3.0	88.6	89.5	87.7
El Salvador	594	42.5	11.0	21.4	15.2	9.9	42.5	44.7	40.4
England	622	92.2	3.2	2.5	1.8	0.4	92.2	93.2	91.2
Georgia	571	44.5	21.2	18.1	8.6	7.6	44.5	50.5	40.2
Germany	746	91.5	3.6	2.2	1.5	1.2	91.5	91.0	91.9
Hong Kong SAR	544	94.0	5.3	0.2	0.5	0.0	94.0	95.1	93.0
Hungary	574	80.4	5.3	9.0	2.6	2.7	80.4	84.5	76.1
Iran, Islamic Rep. of	542	65.3	8.2	14.7	7.1	4.7	65.3	72.4	58.5
Italy	635	87.1	4.9	2.7	2.8	2.6	87.1	88.6	85.7
Japan	633	94.8	4.1	0.9	0.1	0.1	94.8	97.3	92.4
Kazakhstan	567	81.8	6.3	11.2	0.7	0.0	81.8	83.1	80.3
Kuwait	534	40.9	12.0	28.2	13.2	5.7	40.9	52.9	28.9
Latvia	563	89.0	4.4	4.5	1.9	0.2	89.0	89.5	88.3
Lithuania	561	86.8	7.9	2.1	2.6	0.6	86.8	86.9	86.8
Morocco	566	32.8	14.8	28.0	14.8	9.6	32.8	34.9	30.3
Netherlands	483	91.5	4.9	2.6	0.7	0.4	91.5	93.2	89.8
New Zealand	714	87.2	4.7	5.6	1.7	0.8	87.2	88.3	86.1
Norway	569	79.1	9.5	4.7	3.8	2.8	79.1	79.0	79.2
Qatar	991	37.0	13.1	34.2	12.6	3.1	37.0	43.7	29.9
Russian Federation	638	84.6	6.6	6.1	1.6	1.1	84.6	83.2	86.2
Scotland	560	89.5	4.7	2.6	0.7	2.5	89.5	92.1	86.5
Singapore	723	95.2	2.3	2.0	0.5	0.1	95.2	96.6	93.8
Slovak Republic	716	86.3	4.0	5.3	2.7	1.8	86.3	89.1	83.3
Slovenia	619	88.3	4.9	3.2	1.9	1.8	88.3	89.4	87.3
Sweden	660	89.2	4.8	2.1	1.3	2.6	89.2	90.4	87.8
Tunisia	591	38.6	11.7	25.9	13.7	10.1	38.6	47.5	30.0
Ukraine	610	62.1	13.9	15.7	6.6	1.6	62.1	68.5	56.5
United States	1131	91.4	4.7	1.3	1.6	1.0	91.4	92.1	90.7
Yemen	822	14.9	11.6	48.7	16.5	8.4	14.9	19.3	11.5
International Avg.	637	73.8	7.4	10.7	4.9	3.2	73.8	76.6	71.3
Alberta, Canada	589	92.0	3.9	1.8	1.7	0.6	92.0	93.6	90.6
British Columbia, Canada	606	91.8	2.6	2.5	1.6	1.5	91.8	92.7	90.9
Dubai, UAE	437	80.1	6.6	8.3	3.5	1.6	80.1	83.5	76.8
Massachusetts, US	253	96.9	2.3	0.0	0.0	0.8	96.9	95.7	97.9
Minnesota, US	268	92.8	4.1	1.2	0.9	1.0	92.8	91.1	94.7
Ontario, Canada	506	94.6	1.3	1.9	1.2	1.0	94.6	94.5	94.7
Quebec, Canada	557	87.2	3.7	6.1	2.0	1.0	87.2	87.0	87.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041200 - M08\_13)  
 Label: Complete and label the bar graph  
 Type: CR Key: -

COUNTRY	N	20	10	11	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	606	14.2	7.1	5.5	34.3	26.0	12.9	26.8	14.2	16.8	11.6
Armenia	594	23.1	9.4	0.9	22.8	36.2	7.6	33.4	23.1	22.6	23.5
Australia	579	58.8	10.0	15.7	11.0	2.9	1.6	84.5	58.8	61.8	56.0
Austria	689	26.6	8.3	14.5	33.9	15.1	1.6	49.4	26.6	23.5	29.9
Chinese Taipei	590	64.6	14.1	9.5	9.5	2.2	0.2	88.2	64.6	66.1	63.2
Colombia	689	18.5	8.6	5.8	32.9	15.0	19.3	32.8	18.5	18.3	18.7
Czech Republic	611	41.2	12.7	4.6	23.0	16.6	2.0	58.4	41.2	45.1	38.5
Denmark	504	63.4	18.3	4.5	8.1	2.7	3.0	86.2	63.4	66.5	60.1
El Salvador	594	13.3	7.6	5.4	39.4	18.0	16.4	26.3	13.3	12.4	14.1
England	622	57.4	7.1	20.1	12.9	1.3	1.2	84.6	57.4	57.6	57.3
Georgia	571	7.8	7.5	3.2	37.6	32.9	10.9	18.6	7.8	10.1	6.2
Germany	746	48.5	12.4	16.3	15.2	5.6	2.0	77.2	48.5	48.2	48.8
Hong Kong SAR	544	83.0	5.9	6.4	4.0	0.7	0.0	95.2	83.0	85.3	81.0
Hungary	574	49.5	7.7	8.7	21.8	8.2	4.0	66.0	49.5	53.2	45.6
Iran, Islamic Rep. of	542	17.0	7.7	2.6	39.8	24.8	8.1	27.4	17.0	19.4	14.8
Italy	634	50.1	10.3	7.4	16.2	12.3	3.7	67.8	50.1	47.1	52.8
Japan	633	70.5	8.4	11.4	7.9	1.7	0.1	90.3	70.5	75.2	65.8
Kazakhstan	567	45.5	25.3	4.7	18.1	6.1	0.3	75.5	45.5	45.2	45.9
Kuwait	534	6.3	4.8	2.7	43.9	29.6	12.6	13.9	6.3	8.0	4.7
Latvia	563	65.9	12.0	7.0	8.2	6.0	0.9	84.9	65.9	71.6	59.8
Lithuania	561	58.0	17.1	8.5	12.1	3.2	1.1	83.6	58.0	65.7	51.2
Morocco	566	7.9	4.1	0.8	28.1	43.2	15.9	12.8	7.9	7.7	8.2
Netherlands	483	59.5	10.5	11.7	14.2	3.5	0.6	81.8	59.5	63.5	55.7
New Zealand	714	42.4	8.0	23.5	22.5	2.4	1.2	73.9	42.4	47.2	37.8
Norway	569	44.1	12.0	14.5	17.1	7.6	4.6	70.7	44.1	44.7	43.4
Qatar	991	6.7	2.9	2.8	52.3	26.7	8.5	12.5	6.7	7.8	5.6
Russian Federation	638	54.1	10.0	10.2	17.6	6.9	1.1	74.3	54.1	55.4	52.6
Scotland	560	48.9	13.2	20.9	13.2	1.0	2.9	82.9	48.9	49.7	48.0
Singapore	723	73.9	11.2	6.7	6.7	1.4	0.2	91.8	73.9	79.5	68.7
Slovak Republic	716	42.1	10.5	5.9	23.9	14.9	2.8	58.5	42.1	42.6	41.5
Slovenia	619	49.1	10.7	13.8	18.5	5.7	2.3	73.6	49.1	48.5	49.6
Sweden	660	57.9	9.7	10.8	12.1	6.0	3.4	78.4	57.9	57.7	58.2
Tunisia	591	3.8	5.5	2.5	43.1	29.4	15.7	11.7	3.8	4.5	3.0
Ukraine	610	30.7	15.0	6.2	28.3	15.5	4.5	51.8	30.7	34.2	27.5
United States	1131	52.4	8.4	18.2	14.9	4.5	1.6	78.9	52.4	55.2	49.6
Yemen	822	3.3	2.8	0.2	52.2	25.7	15.9	6.3	3.3	3.0	3.5
International Avg.	637	40.5	9.9	8.7	22.7	12.8	5.3	59.2	40.5	42.2	38.9
Alberta, Canada	589	64.4	14.9	6.6	9.7	3.8	0.7	85.9	64.4	66.9	62.2
British Columbia, Canada	606	59.5	12.3	9.7	12.1	4.3	2.2	81.5	59.5	66.2	53.0
Dubai, UAE	437	47.0	10.2	8.0	20.5	11.3	3.0	65.2	47.0	55.8	38.7
Massachusetts, US	253	55.1	6.7	26.5	8.4	2.5	0.8	88.4	55.1	54.5	55.7
Minnesota, US	268	49.3	8.8	16.3	20.5	3.6	1.4	74.5	49.3	49.7	49.0
Ontario, Canada	506	68.2	9.1	13.6	4.5	3.3	1.3	90.9	68.2	66.6	69.8
Quebec, Canada	557	71.3	11.4	2.5	10.2	3.0	1.6	85.2	71.3	75.1	66.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031128 - M09\_01)  
 Label: 5631 plus 286  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	602	63.6	31.9	4.0	0.5	63.6	62.6	64.5
Armenia	593	85.9	12.6	1.5	0.0	85.9	88.6	83.9
Australia	580	53.1	43.8	2.1	1.0	53.1	55.0	50.9
Austria	688	78.5	20.5	1.0	0.0	78.5	82.9	73.9
Chinese Taipei	590	94.9	4.8	0.3	0.0	94.9	93.8	96.0
Colombia	700	60.5	31.5	6.3	1.8	60.5	58.5	63.0
Czech Republic	607	67.2	31.5	1.4	0.0	67.2	68.7	65.8
Denmark	491	78.9	18.8	2.2	0.1	78.9	80.4	77.5
El Salvador	598	30.1	56.5	13.2	0.2	30.1	30.6	29.7
England	631	68.6	27.9	3.6	0.0	68.6	73.0	64.1
Georgia	580	77.7	19.2	2.5	0.7	77.7	83.7	71.6
Germany	745	73.7	23.8	2.5	0.0	73.7	73.6	73.8
Hong Kong SAR	548	90.0	9.6	0.4	0.0	90.0	90.2	89.9
Hungary	579	77.4	21.4	1.2	0.0	77.4	77.5	77.3
Iran, Islamic Rep. of	542	71.5	19.2	8.6	0.7	71.5	70.4	72.6
Italy	644	78.3	19.2	2.5	0.0	78.3	81.1	75.8
Japan	629	87.6	12.0	0.4	0.0	87.6	89.0	86.3
Kazakhstan	569	90.5	9.4	0.1	0.0	90.5	91.5	89.3
Kuwait	547	50.8	35.8	11.0	2.4	50.8	56.6	44.9
Latvia	558	79.8	19.6	0.6	0.0	79.8	85.1	74.6
Lithuania	552	81.8	17.7	0.5	0.0	81.8	84.0	80.1
Morocco	569	59.9	32.5	5.7	1.9	59.9	58.3	61.6
Netherlands	482	64.4	34.8	0.3	0.5	64.4	63.5	65.1
New Zealand	715	41.4	55.6	2.9	0.1	41.4	42.7	40.1
Norway	575	59.8	37.5	2.2	0.5	59.8	62.7	56.9
Qatar	994	31.6	55.4	11.9	1.0	31.6	34.3	28.8
Russian Federation	635	87.6	12.2	0.2	0.0	87.6	87.1	88.2
Scotland	554	54.6	41.1	3.9	0.4	54.6	53.5	55.7
Singapore	716	92.2	7.0	0.7	0.1	92.2	91.3	93.0
Slovak Republic	712	78.4	20.7	0.7	0.1	78.4	80.4	76.5
Slovenia	615	66.7	31.3	1.8	0.1	66.7	68.8	64.8
Sweden	671	58.3	39.1	2.3	0.3	58.3	60.8	55.5
Tunisia	592	71.6	22.3	3.6	2.5	71.6	77.3	66.1
Ukraine	613	79.5	17.6	2.7	0.1	79.5	83.4	76.3
United States	1139	85.6	12.3	1.8	0.3	85.6	85.5	85.7
Yemen	827	20.4	61.6	15.7	2.2	20.4	21.9	19.3
International Avg.	638	69.2	26.9	3.4	0.5	69.2	70.8	67.8
Alberta, Canada	574	72.0	25.7	2.1	0.2	72.0	73.6	70.7
British Columbia, Canada	590	71.8	25.4	2.8	0.0	71.8	74.9	68.8
Dubai, UAE	431	69.4	26.4	4.1	0.1	69.4	76.1	63.2
Massachusetts, US	247	88.5	10.4	1.1	0.0	88.5	88.8	88.2
Minnesota, US	262	82.2	16.4	1.4	0.0	82.2	83.5	81.0
Ontario, Canada	503	64.2	35.3	0.4	0.0	64.2	64.9	63.5
Quebec, Canada	564	86.1	12.7	1.2	0.0	86.1	90.8	81.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031016 - M09\_02)  
 Label: What is the prize winning number  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT	V1	1.GIRL	2.BOY
							REACH ED		%Right	%Right
Algeria	600	8.6	2.6	12.5	43.5	32.3	0.5	8.6	10.5	6.7
Armenia	593	23.6	13.8	17.9	17.0	27.6	0.0	23.6	24.2	23.2
Australia	580	30.3	8.6	19.1	29.8	11.3	1.0	30.3	27.6	33.4
Austria	688	32.1	2.7	13.9	25.5	25.8	0.0	32.1	30.4	33.8
Chinese Taipei	590	20.3	2.9	29.0	38.2	9.6	0.0	20.3	16.7	24.0
Colombia	700	6.8	1.6	9.5	61.1	18.9	2.0	6.8	5.8	8.1
Czech Republic	607	29.2	1.2	10.6	34.4	24.6	0.0	29.2	27.0	31.1
Denmark	491	29.7	3.4	18.9	25.6	22.2	0.1	29.7	27.0	32.2
El Salvador	598	2.1	0.5	35.6	39.1	22.4	0.3	2.1	2.1	2.2
England	631	42.3	6.0	14.2	27.7	9.8	0.0	42.3	43.2	41.5
Georgia	580	14.5	0.9	17.0	26.1	40.4	1.1	14.5	15.1	13.9
Germany	745	40.7	2.4	11.5	27.8	17.7	0.0	40.7	37.2	43.8
Hong Kong SAR	548	49.4	5.1	20.4	22.4	2.6	0.0	49.4	51.9	47.0
Hungary	579	44.0	2.2	14.0	28.3	11.5	0.0	44.0	44.5	43.4
Iran, Islamic Rep. of	542	1.3	1.1	5.4	50.6	41.0	0.7	1.3	0.8	1.9
Italy	644	35.3	2.7	17.2	24.9	19.4	0.5	35.3	33.1	37.3
Japan	629	43.3	4.7	11.3	33.4	7.4	0.0	43.3	42.8	43.6
Kazakhstan	569	42.6	0.9	18.2	32.5	5.8	0.0	42.6	44.2	40.6
Kuwait	547	0.1	0.2	17.3	46.9	32.7	2.8	0.1	0.2	0.0
Latvia	558	49.0	2.4	10.8	27.6	10.2	0.0	49.0	43.3	54.5
Lithuania	552	31.1	2.6	13.9	39.5	12.8	0.0	31.1	33.6	29.1
Morocco	569	3.8	1.2	13.4	40.5	39.2	1.9	3.8	3.5	4.2
Netherlands	482	43.7	6.4	9.3	34.2	6.0	0.5	43.7	46.4	41.6
New Zealand	715	28.4	4.6	17.2	39.5	10.2	0.1	28.4	27.8	29.1
Norway	575	19.3	3.7	14.6	43.3	18.5	0.7	19.3	20.4	18.3
Qatar	994	0.3	0.2	12.6	58.5	27.4	1.0	0.3	0.4	0.2
Russian Federation	635	47.1	2.0	13.4	23.0	14.6	0.0	47.1	46.4	48.0
Scotland	554	29.5	4.0	19.7	34.9	11.5	0.4	29.5	26.6	32.3
Singapore	716	37.3	3.0	14.3	42.4	2.9	0.1	37.3	36.0	38.4
Slovak Republic	712	39.5	4.5	12.9	29.0	13.9	0.3	39.5	39.2	39.7
Slovenia	615	20.9	2.5	19.0	46.0	11.4	0.1	20.9	18.1	23.5
Sweden	671	33.0	6.6	17.0	28.7	14.3	0.5	33.0	28.9	37.4
Tunisia	592	3.5	0.7	8.5	65.3	19.4	2.6	3.5	4.6	2.5
Ukraine	613	21.5	1.6	9.9	42.5	24.3	0.1	21.5	22.4	20.8
United States	1139	31.6	5.8	15.5	41.4	5.4	0.3	31.6	29.7	33.5
Yemen	827	2.1	0.2	0.5	55.3	39.8	2.2	2.1	2.2	2.0
International Avg.	638	26.1	3.2	14.9	36.8	18.5	0.5	26.1	25.4	26.7
Alberta, Canada	574	34.2	5.6	13.9	38.0	8.1	0.2	34.2	30.7	37.2
British Columbia, Canada	590	30.6	7.4	13.6	34.8	13.5	0.1	30.6	29.5	31.6
Dubai, UAE	431	12.6	3.1	17.0	42.5	24.7	0.1	12.6	11.7	13.3
Massachusetts, US	247	49.7	8.9	9.8	27.3	4.3	0.0	49.7	48.5	50.9
Minnesota, US	262	41.1	6.0	11.9	37.5	3.5	0.0	41.1	40.8	41.4
Ontario, Canada	503	29.3	9.7	13.8	39.6	7.6	0.0	29.3	26.3	32.6
Quebec, Canada	564	41.7	9.3	10.1	29.7	9.2	0.0	41.7	41.9	41.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031183 - M09\_03)  
 Label: Recipe for 3 people  
 Type: CR Key: -

COUNTRY	N	20	10	11	12	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	603	10.1	29.3	1.8	2.4	32.8	22.4	1.2	43.6	10.1	9.0	11.2
Armenia	592	37.7	24.6	0.3	0.9	24.0	12.6	0.0	63.4	37.7	36.1	38.9
Australia	580	35.2	35.6	1.2	3.1	21.1	2.5	1.2	75.1	35.2	33.7	37.1
Austria	688	32.4	46.4	3.3	1.4	13.0	3.5	0.0	83.5	32.4	30.2	34.7
Chinese Taipei	590	18.9	55.7	3.1	0.8	19.5	2.1	0.0	78.4	18.9	14.1	23.7
Colombia	700	3.3	29.4	0.9	0.2	51.9	11.3	3.1	33.7	3.3	2.1	4.8
Czech Republic	607	4.9	40.7	6.9	0.8	31.4	15.4	0.0	53.2	4.9	2.5	6.9
Denmark	491	37.8	39.9	3.2	1.6	12.1	5.2	0.4	82.4	37.8	35.3	40.0
El Salvador	598	2.8	24.6	0.8	0.0	55.2	15.3	1.4	28.1	2.8	4.0	1.8
England	631	60.3	21.9	0.3	2.4	11.8	2.9	0.4	84.9	60.3	58.7	61.8
Georgia	582	19.9	20.9	3.6	1.2	29.5	23.0	1.9	45.6	19.9	22.6	17.2
Germany	745	42.7	39.3	3.7	0.8	10.3	3.0	0.1	86.5	42.7	36.8	48.2
Hong Kong SAR	548	31.3	56.4	0.5	0.2	10.4	1.1	0.0	88.4	31.3	28.4	34.1
Hungary	579	21.6	48.2	3.8	0.8	21.6	3.6	0.3	74.5	21.6	20.1	23.5
Iran, Islamic Rep. of	542	2.9	22.5	0.6	1.1	39.4	32.4	1.1	27.1	2.9	2.9	3.0
Italy	644	21.1	46.5	4.0	0.9	21.5	5.3	0.8	72.4	21.1	23.1	19.3
Japan	629	20.3	47.4	0.5	0.5	28.1	3.1	0.0	68.8	20.3	20.7	20.0
Kazakhstan	569	38.3	27.0	2.2	0.9	26.5	5.0	0.0	68.4	38.3	35.3	42.0
Kuwait	547	9.7	7.1	0.0	7.6	45.8	25.3	4.5	24.4	9.7	12.1	7.1
Latvia	558	24.9	42.2	3.5	0.8	25.7	2.1	0.6	71.5	24.9	22.1	27.7
Lithuania	552	25.5	38.3	1.6	2.3	26.3	6.0	0.0	67.7	25.5	23.2	27.3
Morocco	569	5.9	29.4	1.5	0.1	32.6	27.4	3.0	37.0	5.9	6.3	5.6
Netherlands	482	38.8	48.8	0.7	0.4	8.4	2.5	0.5	88.7	38.8	35.7	41.3
New Zealand	715	44.5	26.6	0.3	1.5	24.3	2.8	0.1	72.8	44.5	44.9	44.2
Norway	575	16.7	49.3	3.5	0.3	24.5	4.6	1.3	69.7	16.7	16.6	16.7
Qatar	994	5.0	9.7	0.5	2.7	62.2	18.4	1.4	18.0	5.0	4.3	5.7
Russian Federation	635	27.3	34.8	2.0	0.7	26.7	7.5	1.0	64.8	27.3	23.9	31.3
Scotland	554	32.5	36.1	1.6	2.2	23.9	3.2	0.5	72.4	32.5	30.5	34.5
Singapore	716	47.6	32.4	0.6	2.1	16.6	0.7	0.1	82.6	47.6	45.2	49.6
Slovak Republic	712	14.1	43.1	2.0	0.4	32.0	7.8	0.6	59.7	14.1	13.9	14.3
Slovenia	615	13.5	42.5	1.5	1.0	37.3	3.9	0.3	58.6	13.5	7.3	19.4
Sweden	671	16.8	63.2	3.5	0.4	12.5	2.8	0.7	83.9	16.8	15.7	18.0
Tunisia	592	3.8	22.9	3.7	0.2	39.2	26.8	3.4	30.7	3.8	3.4	4.2
Ukraine	613	14.4	33.4	1.6	1.9	38.5	10.0	0.1	51.3	14.4	13.3	15.3
United States	1139	30.7	40.9	0.3	0.9	24.3	2.5	0.4	72.8	30.7	28.5	32.8
Yemen	828	1.7	8.1	0.2	0.6	55.4	31.5	2.5	10.7	1.7	1.7	1.7
International Avg.	638	22.6	35.1	1.9	1.3	28.2	9.9	0.9	61.0	22.6	21.2	24.0
Alberta, Canada	574	16.3	51.0	0.2	0.4	28.3	3.5	0.2	68.0	16.3	8.4	22.9
British Columbia, Canada	590	20.1	49.4	2.4	0.9	22.3	4.3	0.5	72.9	20.1	19.4	20.8
Dubai, UAE	431	16.8	30.1	2.6	2.0	35.4	12.9	0.3	51.5	16.8	16.6	16.7
Massachusetts, US	247	54.6	29.4	0.0	1.3	12.8	1.5	0.3	85.3	54.6	55.3	54.0
Minnesota, US	262	49.4	29.0	0.0	1.6	18.3	1.7	0.0	80.0	49.4	43.2	55.0
Ontario, Canada	503	24.8	41.6	0.5	2.2	28.4	2.1	0.3	69.2	24.8	24.3	25.4
Quebec, Canada	564	19.2	51.3	0.4	1.2	25.3	2.6	0.0	72.1	19.2	16.5	21.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031187 - M09\_05)  
 Label: Kim gave Pete 3 more pencils  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	570	49.3	9.4	49.3	12.8	13.0	13.6	1.9	53.5	44.8
Armenia	593	64.7	7.0	64.7	4.8	4.2	19.2	0.3	68.4	61.9
Australia	576	72.4	4.5	72.4	4.8	11.0	5.8	1.6	72.5	72.3
Austria	688	76.7	1.8	76.7	2.5	8.4	10.7	0.0	73.1	80.5
Chinese Taipei	590	67.1	3.5	67.1	22.1	5.0	2.3	0.0	66.4	67.8
Colombia	700	48.8	8.1	48.8	12.9	11.4	14.2	4.5	45.3	53.3
Czech Republic	607	71.8	4.2	71.8	2.0	7.2	14.8	0.0	74.5	69.5
Denmark	490	72.6	7.0	72.6	4.4	5.2	9.9	0.9	73.9	71.4
El Salvador	598	50.4	10.4	50.4	12.5	13.0	11.3	2.3	47.3	53.1
England	631	72.3	4.7	72.3	3.0	10.0	9.5	0.5	72.5	72.0
Georgia	581	71.1	4.8	71.1	5.6	8.6	7.2	2.8	70.3	71.8
Germany	745	78.0	3.0	78.0	2.3	6.3	10.3	0.1	76.4	79.4
Hong Kong SAR	548	75.6	2.3	75.6	15.9	4.6	1.5	0.0	75.8	75.3
Hungary	579	80.6	1.3	80.6	2.5	7.7	7.5	0.3	80.2	81.1
Iran, Islamic Rep. of	542	54.0	9.8	54.0	7.6	14.1	12.3	2.3	56.5	51.2
Italy	643	83.6	2.3	83.6	2.6	4.8	5.9	0.8	82.1	84.8
Japan	629	70.2	3.1	70.2	17.2	6.7	2.6	0.2	73.1	67.4
Kazakhstan	569	85.8	2.2	85.8	5.2	6.8	0.0	0.0	84.1	87.9
Kuwait	547	45.1	10.0	45.1	10.0	17.3	12.1	5.5	48.3	41.9
Latvia	558	79.0	1.7	79.0	3.0	7.1	8.6	0.6	76.7	81.2
Lithuania	552	80.8	4.8	80.8	3.3	5.8	5.3	0.0	78.9	82.3
Morocco	549	38.0	15.4	38.0	18.8	15.3	8.8	3.8	32.6	43.2
Netherlands	482	88.3	1.5	88.3	3.0	3.1	3.5	0.6	87.8	88.7
New Zealand	715	71.7	5.3	71.7	5.0	9.2	8.2	0.6	73.3	70.1
Norway	575	66.3	6.5	66.3	8.2	11.0	6.1	2.0	66.4	66.2
Qatar	993	38.0	20.0	38.0	13.9	17.5	8.7	1.8	38.6	37.4
Russian Federation	635	89.1	2.8	89.1	1.7	2.9	2.6	1.0	88.1	90.3
Scotland	554	68.4	5.6	68.4	3.8	8.7	12.4	1.2	71.1	65.7
Singapore	716	85.6	3.4	85.6	5.3	5.2	0.4	0.2	84.6	86.3
Slovak Republic	712	75.0	3.6	75.0	1.4	9.8	9.4	0.9	73.9	76.0
Slovenia	615	77.1	4.6	77.1	2.3	10.3	4.9	0.8	78.4	75.9
Sweden	671	72.8	4.7	72.8	6.2	7.2	8.0	1.0	72.2	73.5
Tunisia	592	36.1	10.3	36.1	13.1	13.9	20.6	6.0	38.7	33.6
Ukraine	613	80.8	3.5	80.8	2.9	10.7	1.6	0.5	83.2	78.7
United States	1139	82.5	2.7	82.5	4.7	8.4	1.0	0.7	83.2	81.9
Yemen	828	27.9	15.0	27.9	22.6	14.3	17.4	2.8	28.3	27.5
International Avg.	637	68.0	5.8	68.0	7.5	9.0	8.3	1.3	68.1	67.9
Alberta, Canada	574	79.5	4.2	79.5	3.0	8.2	4.9	0.2	80.2	79.0
British Columbia, Canada	590	72.9	3.9	72.9	4.7	8.7	9.0	0.8	72.1	73.6
Dubai, UAE	.	.	.	.	.	.	.	.	.	.
Massachusetts, US	247	87.8	2.9	87.8	4.4	3.2	1.3	0.3	88.4	87.2
Minnesota, US	262	81.5	2.8	81.5	5.3	6.3	3.8	0.4	80.1	82.8
Ontario, Canada	503	77.4	4.4	77.4	5.3	9.3	3.2	0.4	73.1	82.0
Quebec, Canada	564	76.7	2.0	76.7	3.9	9.1	8.2	0.0	76.6	76.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031251 - M09\_06)  
 Label: Ebru's rule to get number in box  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	556	35.7	16.7	35.7	20.0	13.2	11.7	2.6	35.3	36.3
Armenia	576	43.1	13.6	43.1	6.2	9.2	27.6	0.3	42.5	43.6
Australia	578	39.4	25.5	39.4	18.1	8.6	6.2	2.2	33.0	47.1
Austria	688	38.1	14.7	38.1	15.7	12.7	18.8	0.0	36.1	40.2
Chinese Taipei	590	76.5	10.3	76.5	7.7	4.4	1.0	0.0	78.4	74.7
Colombia	700	20.4	19.7	20.4	15.1	21.8	18.2	4.8	17.4	24.2
Czech Republic	607	37.3	16.6	37.3	16.5	11.2	18.3	0.0	34.7	39.5
Denmark	489	46.0	16.0	46.0	10.8	6.3	19.6	1.3	42.9	49.0
El Salvador	598	19.5	20.0	19.5	19.5	21.7	15.9	3.3	18.5	20.5
England	631	57.3	15.3	57.3	10.9	7.9	8.1	0.5	58.4	56.2
Georgia	581	37.0	16.8	37.0	12.4	12.6	18.3	2.8	41.2	32.8
Germany	745	42.5	15.2	42.5	14.8	10.6	16.6	0.3	42.3	42.6
Hong Kong SAR	548	77.7	8.3	77.7	8.7	4.2	1.1	0.0	77.0	78.3
Hungary	579	60.0	13.0	60.0	10.3	7.6	8.7	0.4	56.9	63.8
Iran, Islamic Rep. of	542	33.4	20.2	33.4	17.3	11.0	15.4	2.7	30.9	36.3
Italy	642	55.0	14.0	55.0	11.2	8.6	10.4	0.8	55.9	54.2
Japan	629	71.1	11.1	71.1	11.3	3.8	2.6	0.2	71.2	71.0
Kazakhstan	569	55.8	20.1	55.8	12.0	11.5	0.7	0.0	55.0	56.7
Kuwait	547	22.2	19.3	22.2	21.7	14.7	16.0	6.0	23.9	20.5
Latvia	558	54.5	16.1	54.5	10.2	11.1	6.7	1.3	54.3	54.8
Lithuania	552	45.1	17.4	45.1	15.9	10.6	11.1	0.0	43.6	46.3
Morocco	537	24.4	17.0	24.4	25.0	16.1	13.1	4.4	21.9	26.7
Netherlands	482	37.9	30.6	37.9	16.9	9.2	4.8	0.6	35.6	39.7
New Zealand	715	42.4	23.4	42.4	16.5	10.7	6.5	0.6	41.8	42.9
Norway	575	31.9	19.5	31.9	18.0	13.4	14.3	2.9	33.3	30.5
Qatar	994	27.0	21.0	27.0	22.8	15.7	11.3	2.1	27.1	26.9
Russian Federation	635	64.1	11.3	64.1	9.4	7.3	6.8	1.0	64.7	63.4
Scotland	554	38.0	23.8	38.0	13.7	9.4	13.1	2.0	34.5	41.5
Singapore	716	72.5	9.7	72.5	11.6	5.7	0.3	0.2	70.0	74.7
Slovak Republic	712	47.5	17.5	47.5	9.5	8.7	15.4	1.4	48.9	46.3
Slovenia	615	44.2	17.9	44.2	15.4	13.3	8.4	0.8	45.0	43.5
Sweden	671	29.0	17.9	29.0	21.2	13.8	16.7	1.4	25.7	32.5
Tunisia	592	20.9	15.8	20.9	21.6	13.8	21.1	6.9	21.2	20.6
Ukraine	613	39.6	16.2	39.6	17.2	16.7	9.7	0.6	40.9	38.5
United States	1139	59.3	18.2	59.3	11.6	8.4	1.9	0.7	58.8	59.8
Yemen	828	20.2	12.3	20.2	32.4	18.4	13.4	3.3	17.8	22.1
International Avg.	636	43.5	17.0	43.5	15.3	11.2	11.4	1.6	42.7	44.4
Alberta, Canada	574	44.2	19.3	44.2	20.5	11.5	4.3	0.3	39.4	48.2
British Columbia, Canada	590	47.3	20.8	47.3	15.1	7.7	7.9	1.1	43.2	51.1
Dubai, UAE	431	42.8	20.1	42.8	14.2	9.0	13.5	0.4	43.9	41.9
Massachusetts, US	247	80.4	7.6	80.4	5.7	4.2	1.7	0.3	79.0	81.7
Minnesota, US	262	65.5	18.4	65.5	5.8	5.7	3.7	0.9	60.1	70.4
Ontario, Canada	503	43.3	24.8	43.3	14.8	13.2	3.4	0.4	42.7	44.0
Quebec, Canada	564	47.0	17.2	47.0	14.6	11.8	9.4	0.1	48.2	45.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031294 - M09\_07)  
 Label: How much the apples weigh in grams  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	16.0	41.8	25.6	10.9	16.0	2.5	3.2	14.1	17.9
Armenia	590	40.1	7.5	31.1	11.4	40.1	9.7	0.3	33.2	45.3
Australia	579	62.2	2.7	25.5	7.2	62.2	0.1	2.3	56.8	68.5
Austria	688	68.4	1.6	22.9	6.1	68.4	1.0	0.0	67.3	69.7
Chinese Taipei	590	86.1	0.0	10.9	2.7	86.1	0.3	0.0	82.3	90.0
Colombia	700	14.1	26.2	37.9	13.7	14.1	3.0	5.2	12.8	15.7
Czech Republic	607	63.2	3.2	26.2	6.2	63.2	1.0	0.3	57.4	68.3
Denmark	491	72.4	0.9	18.7	6.7	72.4	0.0	1.3	67.8	76.6
El Salvador	598	13.9	30.3	36.8	13.1	13.9	1.7	4.2	13.1	14.6
England	631	79.3	2.4	9.9	6.1	79.3	1.6	0.7	77.2	81.5
Georgia	582	28.7	20.3	19.1	28.5	28.7	0.5	2.9	26.2	31.1
Germany	745	81.5	0.6	11.8	5.2	81.5	0.6	0.3	78.7	84.0
Hong Kong SAR	548	87.3	0.0	8.1	3.9	87.3	0.6	0.1	84.7	89.9
Hungary	579	70.5	1.4	18.6	8.6	70.5	0.5	0.4	67.3	74.3
Iran, Islamic Rep. of	542	30.1	12.8	44.2	9.2	30.1	0.7	3.1	26.4	34.1
Italy	643	48.8	3.0	36.5	9.3	48.8	1.0	1.3	45.6	51.6
Japan	629	92.5	0.0	4.3	2.3	92.5	0.4	0.4	90.2	94.7
Kazakhstan	569	64.3	5.5	19.0	11.2	64.3	0.1	0.0	56.8	73.4
Kuwait	547	12.0	40.7	23.6	14.7	12.0	2.3	6.6	8.3	15.7
Latvia	558	73.1	4.8	13.1	6.1	73.1	1.7	1.3	62.5	83.5
Lithuania	552	78.9	1.4	12.4	6.4	78.9	0.8	0.0	76.0	81.3
Morocco	555	11.9	35.9	24.9	20.2	11.9	2.5	4.7	14.2	9.7
Netherlands	482	81.7	0.1	10.8	6.5	81.7	0.2	0.7	79.0	83.8
New Zealand	715	56.4	5.1	27.0	10.0	56.4	1.0	0.6	51.4	61.1
Norway	575	53.4	3.2	32.1	6.9	53.4	0.4	4.1	42.2	64.5
Qatar	994	13.1	45.4	25.2	11.5	13.1	2.5	2.3	11.1	15.2
Russian Federation	635	60.7	2.1	24.0	11.9	60.7	0.3	1.0	54.6	67.8
Scotland	554	57.4	4.0	24.4	10.2	57.4	1.0	2.9	50.0	64.8
Singapore	716	87.1	0.2	9.0	3.5	87.1	0.0	0.2	85.5	88.5
Slovak Republic	712	55.6	5.1	32.7	4.9	55.6	0.4	1.4	47.0	63.4
Slovenia	615	61.1	4.0	27.9	6.1	61.1	0.1	0.8	58.1	63.9
Sweden	671	61.9	2.2	26.7	7.1	61.9	0.3	1.7	56.1	68.3
Tunisia	592	10.7	31.7	31.1	13.4	10.7	5.5	7.6	9.1	12.3
Ukraine	613	47.6	8.3	28.6	13.5	47.6	0.8	1.1	42.8	51.7
United States	1139	62.9	1.9	27.3	6.3	62.9	0.6	0.9	54.3	71.4
Yemen	828	12.0	47.5	11.8	18.5	12.0	6.4	3.8	12.6	11.6
International Avg.	637	53.2	11.2	22.8	9.4	53.2	1.4	1.9	49.2	57.2
Alberta, Canada	574	59.7	1.6	28.0	9.2	59.7	1.2	0.4	49.9	67.7
British Columbia, Canada	590	53.2	2.6	34.5	7.5	53.2	1.1	1.1	42.2	63.7
Dubai, UAE	431	38.9	12.7	34.0	10.0	38.9	3.6	0.7	37.0	40.4
Massachusetts, US	247	69.9	0.8	21.2	6.9	69.9	0.5	0.8	62.9	76.6
Minnesota, US	262	71.6	2.2	15.8	7.1	71.6	2.0	1.3	65.3	77.3
Ontario, Canada	503	49.1	5.9	37.4	4.9	49.1	1.9	0.8	41.2	57.7
Quebec, Canada	564	65.5	2.7	23.4	6.8	65.5	1.5	0.1	59.5	71.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031297 - M09\_08)  
 Label: Shaded area in square centimeters  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	601	11.3	2.2	2.3	53.9	27.2	3.1	11.3	14.0	8.4
Armenia	593	49.8	5.4	4.2	29.3	10.9	0.3	49.8	49.7	50.0
Australia	580	47.5	5.8	10.2	29.4	4.6	2.5	47.5	45.3	50.2
Austria	688	42.9	5.4	8.8	32.0	10.9	0.0	42.9	40.1	45.7
Chinese Taipei	590	75.3	1.6	4.2	17.9	1.0	0.0	75.3	73.8	76.8
Colombia	700	3.2	6.3	5.7	60.7	18.3	5.9	3.2	2.8	3.7
Czech Republic	607	26.5	13.4	7.5	36.2	16.3	0.3	26.5	28.9	24.4
Denmark	491	51.2	0.5	3.3	32.1	11.5	1.3	51.2	52.7	49.8
El Salvador	598	4.6	2.9	4.4	67.7	15.7	4.8	4.6	4.4	4.8
England	631	41.6	8.0	6.5	38.9	4.1	0.8	41.6	37.7	45.6
Georgia	580	22.8	9.2	6.7	34.8	23.5	2.9	22.8	22.8	22.8
Germany	745	40.3	2.8	5.9	42.2	8.5	0.3	40.3	38.2	42.1
Hong Kong SAR	548	75.5	0.8	10.3	13.1	0.2	0.1	75.5	78.6	72.4
Hungary	579	36.3	5.1	8.9	38.8	10.5	0.4	36.3	37.7	34.6
Iran, Islamic Rep. of	542	10.9	5.9	3.5	49.5	27.0	3.2	10.9	8.3	13.7
Italy	644	32.9	3.8	8.3	43.1	10.2	1.7	32.9	31.8	33.9
Japan	629	81.2	1.8	5.1	10.7	0.8	0.4	81.2	82.9	79.5
Kazakhstan	569	52.1	7.4	5.1	33.9	1.5	0.0	52.1	51.5	52.9
Kuwait	547	10.1	2.5	2.0	54.5	24.0	6.9	10.1	12.9	7.2
Latvia	558	52.1	6.2	3.5	32.4	4.4	1.4	52.1	46.7	57.3
Lithuania	283	38.4	8.2	5.8	43.4	4.3	0.0	38.4	40.8	36.5
Morocco	568	10.7	3.9	2.6	51.6	26.4	4.8	10.7	11.3	10.3
Netherlands	482	48.2	3.5	7.5	39.1	1.0	0.7	48.2	47.6	48.6
New Zealand	715	31.9	6.5	7.3	47.7	6.0	0.6	31.9	32.1	31.7
Norway	575	23.5	4.0	4.6	52.7	11.1	4.1	23.5	21.8	25.2
Qatar	994	2.3	4.4	2.7	69.1	18.8	2.7	2.3	2.6	2.1
Russian Federation	635	53.3	7.2	5.7	28.0	4.7	1.0	53.3	50.4	56.7
Scotland	554	44.9	5.6	7.1	30.5	8.9	3.0	44.9	45.4	44.4
Singapore	716	45.9	5.0	5.5	42.7	0.6	0.2	45.9	43.0	48.3
Slovak Republic	712	30.9	6.8	8.5	40.4	12.0	1.4	30.9	29.2	32.6
Slovenia	615	24.1	4.5	9.5	55.6	5.5	0.8	24.1	18.5	29.3
Sweden	671	26.0	3.4	7.2	52.4	9.2	1.9	26.0	23.6	28.7
Tunisia	592	8.7	3.2	2.0	58.6	19.4	8.0	8.7	8.9	8.6
Ukraine	613	28.6	10.1	6.9	40.8	12.5	1.1	28.6	27.6	29.4
United States	1139	34.6	7.6	10.2	45.0	1.6	0.9	34.6	35.8	33.4
Yemen	828	5.4	3.0	2.3	50.0	34.7	4.5	5.4	8.1	3.2
International Avg.	631	34.0	5.1	5.9	41.6	11.3	2.0	34.0	33.5	34.6
Alberta, Canada	574	34.6	5.3	7.8	46.1	5.3	1.0	34.6	33.6	35.5
British Columbia, Canada	590	33.2	7.3	7.2	42.6	8.5	1.1	33.2	32.1	34.3
Dubai, UAE	431	25.5	4.9	6.5	46.2	16.1	0.9	25.5	27.9	23.0
Massachusetts, US	247	64.8	2.5	5.7	25.4	0.3	1.3	64.8	67.2	62.5
Minnesota, US	262	50.8	6.3	8.9	31.6	1.0	1.3	50.8	51.8	50.0
Ontario, Canada	503	36.7	4.9	7.6	46.3	3.7	0.8	36.7	36.7	36.8
Quebec, Canada	564	41.8	3.3	6.1	42.1	6.4	0.1	41.8	38.5	44.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031218 - M09\_09)  
 Label: 600 books to be packed into boxes  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	575	28.5	15.3	17.0	26.5	28.5	8.3	4.4	29.2	27.7
Armenia	591	62.3	7.0	7.1	7.6	62.3	15.3	0.6	64.9	60.4
Australia	578	49.1	17.0	9.8	18.2	49.1	3.1	2.7	46.3	52.4
Austria	688	60.7	10.0	6.3	17.3	60.7	5.7	0.0	60.0	61.3
Chinese Taipei	590	87.5	2.5	2.0	7.6	87.5	0.3	0.0	89.3	85.7
Colombia	700	22.5	19.6	14.2	27.5	22.5	8.3	7.8	20.8	24.6
Czech Republic	607	52.7	16.1	7.6	17.8	52.7	5.3	0.6	52.3	53.0
Denmark	490	43.6	14.4	15.5	14.6	43.6	8.8	3.1	43.5	43.7
El Salvador	598	22.4	25.2	12.6	26.5	22.4	6.1	7.1	21.5	23.3
England	631	60.7	11.0	9.3	13.8	60.7	4.5	0.8	58.4	62.9
Georgia	580	48.4	15.4	11.2	16.5	48.4	3.8	4.7	49.1	47.7
Germany	745	59.1	11.2	9.6	14.4	59.1	4.7	1.0	60.5	57.8
Hong Kong SAR	548	88.7	2.0	3.9	4.9	88.7	0.4	0.1	91.2	86.1
Hungary	579	66.5	5.6	10.6	13.4	66.5	2.8	1.1	63.3	70.3
Iran, Islamic Rep. of	542	32.0	19.4	12.1	22.2	32.0	8.2	6.1	27.3	37.3
Italy	643	63.0	8.9	7.1	15.3	63.0	3.9	1.8	60.6	65.2
Japan	629	76.4	4.5	6.1	11.8	76.4	0.9	0.4	78.3	74.6
Kazakhstan	569	75.0	8.5	5.3	10.9	75.0	0.3	0.0	73.2	77.3
Kuwait	547	16.9	25.9	22.3	19.5	16.9	7.3	8.0	17.5	16.3
Latvia	558	79.5	7.3	3.4	6.6	79.5	1.1	2.1	80.1	79.0
Lithuania	283	81.7	3.2	1.9	12.0	81.7	1.2	0.0	77.7	84.8
Morocco	543	30.7	11.4	17.5	25.2	30.7	8.7	6.4	34.5	26.8
Netherlands	482	74.8	5.9	8.7	8.9	74.8	0.9	0.7	75.9	74.0
New Zealand	715	49.3	18.8	10.8	16.4	49.3	3.6	1.1	51.0	47.8
Norway	575	40.2	16.5	17.1	15.6	40.2	5.9	4.7	38.1	42.3
Qatar	993	19.0	25.9	24.2	20.6	19.0	6.4	3.9	21.2	16.7
Russian Federation	635	76.1	4.1	3.3	13.0	76.1	2.0	1.6	75.8	76.5
Scotland	554	44.4	17.1	12.0	16.5	44.4	6.1	3.9	44.2	44.7
Singapore	716	79.2	3.8	5.7	10.7	79.2	0.4	0.2	79.4	79.0
Slovak Republic	712	55.6	11.6	12.8	13.4	55.6	4.5	2.1	55.3	55.8
Slovenia	615	58.0	12.7	11.8	13.5	58.0	2.9	1.1	54.6	61.1
Sweden	671	30.8	25.0	15.1	22.3	30.8	4.7	2.0	30.3	31.2
Tunisia	592	30.3	11.6	14.1	21.3	30.3	12.6	10.0	35.3	25.4
Ukraine	613	59.9	9.9	5.3	21.5	59.9	1.3	2.0	61.7	58.4
United States	1139	65.4	10.3	8.2	13.9	65.4	1.1	1.1	64.2	66.6
Yemen	828	20.2	14.6	26.5	24.4	20.2	8.4	5.9	19.2	21.1
International Avg.	629	53.1	12.5	10.8	16.2	53.1	4.7	2.8	52.9	53.3
Alberta, Canada	574	47.9	16.7	14.1	17.9	47.9	2.4	1.0	41.7	53.0
British Columbia, Canada	590	41.9	18.2	18.1	15.8	41.9	4.7	1.2	38.7	45.0
Dubai, UAE	431	40.1	12.6	19.3	18.6	40.1	7.6	1.8	43.0	37.5
Massachusetts, US	247	75.0	2.3	6.1	12.6	75.0	2.7	1.3	70.6	79.1
Minnesota, US	262	67.9	10.4	6.0	12.5	67.9	1.3	1.9	65.3	70.2
Ontario, Canada	503	43.8	18.9	16.2	17.0	43.8	3.1	1.0	46.6	40.7
Quebec, Canada	564	52.1	14.2	11.7	16.6	52.1	4.0	1.5	50.5	53.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031109 - M09\_10)  
 Label: The angles ordered by size  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	39.3	10.7	27.2	39.3	7.7	10.2	5.0	38.1	40.5
Armenia	589	53.5	8.8	16.1	53.5	4.1	11.2	6.3	55.9	51.8
Australia	579	67.2	4.2	19.2	67.2	4.1	2.4	3.0	63.7	71.3
Austria	688	62.6	4.2	25.4	62.6	3.0	4.8	0.0	63.1	62.1
Chinese Taipei	590	66.1	0.7	31.6	66.1	0.8	0.8	0.0	64.2	68.0
Colombia	700	36.5	14.0	21.3	36.5	11.9	6.9	9.4	35.9	37.2
Czech Republic	607	62.6	7.0	21.6	62.6	4.5	3.6	0.6	71.2	55.3
Denmark	491	65.6	3.8	20.5	65.6	2.8	4.0	3.3	68.2	63.2
El Salvador	598	33.7	19.9	20.5	33.7	10.6	7.5	7.8	34.0	33.5
England	631	68.5	5.1	19.7	68.5	4.1	1.4	1.2	70.0	67.0
Georgia	582	54.0	10.6	15.0	54.0	8.1	6.8	5.5	55.5	52.4
Germany	745	64.8	4.4	23.5	64.8	2.3	3.8	1.3	69.7	60.3
Hong Kong SAR	548	82.9	0.7	14.5	82.9	1.4	0.4	0.1	84.1	81.7
Hungary	579	71.1	4.3	16.9	71.1	4.0	2.3	1.3	72.6	69.3
Iran, Islamic Rep. of	542	27.2	17.4	32.7	27.2	7.4	7.2	8.1	25.2	29.5
Italy	644	66.7	4.6	21.2	66.7	3.4	1.9	2.1	67.4	66.2
Japan	629	92.8	1.1	2.6	92.8	2.1	1.1	0.4	92.9	92.7
Kazakhstan	569	73.8	3.5	19.1	73.8	3.3	0.3	0.0	73.0	74.8
Kuwait	547	40.6	11.8	23.1	40.6	9.7	6.2	8.5	45.4	35.7
Latvia	558	80.7	2.7	11.1	80.7	1.9	1.5	2.1	80.3	81.2
Lithuania	552	63.3	4.8	24.8	63.3	4.1	3.0	0.0	62.7	63.7
Morocco	538	31.3	12.8	25.5	31.3	9.5	13.4	7.5	29.8	33.0
Netherlands	482	78.7	2.6	15.8	78.7	2.0	0.2	0.7	75.5	81.3
New Zealand	715	54.8	7.6	26.7	54.8	6.6	3.0	1.3	57.8	52.1
Norway	575	50.3	9.0	24.8	50.3	5.9	4.7	5.3	53.0	47.5
Qatar	993	30.7	19.0	28.7	30.7	11.3	6.3	4.0	36.1	25.1
Russian Federation	635	76.1	3.2	13.7	76.1	3.1	2.1	1.8	76.9	75.2
Scotland	554	55.1	6.3	23.2	55.1	6.2	5.2	4.1	57.5	52.8
Singapore	716	87.4	1.6	9.2	87.4	1.5	0.2	0.2	88.6	86.3
Slovak Republic	712	54.9	7.4	24.0	54.9	6.0	4.8	2.9	55.7	54.3
Slovenia	615	64.5	6.9	23.3	64.5	2.7	1.3	1.4	64.5	64.4
Sweden	671	57.4	4.6	27.7	57.4	5.7	2.4	2.3	62.1	52.3
Tunisia	592	31.8	8.5	22.5	31.8	11.2	14.7	11.4	33.0	30.7
Ukraine	613	55.0	7.1	23.3	55.0	8.7	3.8	2.0	58.2	52.4
United States	1139	78.2	2.8	13.3	78.2	3.3	1.1	1.4	78.5	78.0
Yemen	828	32.1	16.9	21.4	32.1	11.0	12.3	6.3	34.4	30.3
International Avg.	636	58.7	7.2	20.8	58.7	5.4	4.5	3.3	59.8	57.6
Alberta, Canada	574	67.6	5.1	20.0	67.6	3.6	2.5	1.2	72.0	63.8
British Columbia, Canada	590	65.8	3.6	23.8	65.8	2.1	3.1	1.5	65.4	66.2
Dubai, UAE	431	51.8	7.4	24.4	51.8	9.1	3.8	3.4	57.6	46.6
Massachusetts, US	247	78.3	0.5	16.7	78.3	1.1	1.2	2.1	80.0	76.7
Minnesota, US	262	81.4	2.4	9.9	81.4	4.3	0.0	1.9	83.9	79.2
Ontario, Canada	503	69.5	4.5	21.6	69.5	1.5	1.1	1.8	70.3	68.7
Quebec, Canada	564	76.2	3.3	14.4	76.2	2.2	2.3	1.6	80.4	72.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031159 - M09\_11)  
 Label: Rotate the shape 1/4 turn clockwise  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	23.1	23.1	26.2	24.5	7.1	11.7	7.4	22.5	23.7
Armenia	591	47.4	47.4	11.9	7.5	4.3	21.3	7.5	50.7	44.9
Australia	578	73.3	73.3	8.7	9.2	2.6	3.2	3.0	69.4	77.9
Austria	688	79.2	79.2	7.2	6.7	2.2	4.4	0.3	81.5	76.9
Chinese Taipei	590	88.7	88.7	3.2	5.0	2.0	1.0	0.0	89.6	87.9
Colombia	700	28.9	28.9	28.7	13.6	8.8	8.7	11.3	25.9	32.8
Czech Republic	607	70.0	70.0	8.5	7.1	2.8	10.7	0.9	69.6	70.4
Denmark	491	67.0	67.0	9.7	8.9	1.6	8.2	4.6	69.7	64.5
El Salvador	598	30.4	30.4	25.3	17.7	11.8	4.9	10.0	29.9	30.8
England	631	78.5	78.5	7.4	6.7	3.6	2.3	1.5	81.9	75.1
Georgia	582	41.1	41.1	18.3	15.0	9.1	9.3	7.2	41.4	40.8
Germany	745	75.5	75.5	7.6	8.2	1.9	5.4	1.4	73.9	76.8
Hong Kong SAR	548	86.7	86.7	5.5	5.2	2.2	0.0	0.4	83.8	89.5
Hungary	579	71.1	71.1	9.7	8.3	5.5	3.8	1.6	71.1	71.1
Iran, Islamic Rep. of	542	29.4	29.4	16.6	23.1	10.5	11.7	8.7	30.7	27.9
Italy	643	76.4	76.4	5.4	7.4	3.1	5.0	2.6	75.0	77.7
Japan	629	79.2	79.2	6.7	6.4	4.1	3.1	0.6	78.8	79.6
Kazakhstan	569	74.7	74.7	12.1	9.0	3.9	0.2	0.1	73.8	75.8
Kuwait	547	40.2	40.2	16.1	15.5	10.2	8.6	9.4	41.2	39.1
Latvia	558	68.4	68.4	9.3	11.3	5.2	3.7	2.1	67.1	69.6
Lithuania	552	75.1	75.1	8.7	7.4	2.9	4.4	1.5	74.6	75.6
Morocco	538	24.0	24.0	23.5	22.2	7.8	12.7	9.8	19.2	28.4
Netherlands	482	75.6	75.6	9.5	7.7	5.4	0.9	0.9	77.2	74.3
New Zealand	715	74.6	74.6	9.4	8.1	3.4	2.6	1.9	73.8	75.3
Norway	575	47.3	47.3	22.9	10.8	4.4	9.0	5.7	44.1	50.6
Qatar	993	32.4	32.4	27.7	18.3	8.3	8.4	5.0	33.0	31.8
Russian Federation	635	73.4	73.4	8.9	11.6	0.8	3.5	1.8	73.4	73.5
Scotland	554	68.1	68.1	10.4	9.3	3.0	3.8	5.4	69.3	66.8
Singapore	716	83.4	83.4	5.7	8.3	2.2	0.2	0.2	81.9	84.6
Slovak Republic	712	69.1	69.1	8.8	9.4	4.5	4.8	3.3	66.0	71.9
Slovenia	615	69.5	69.5	10.0	10.2	4.8	4.0	1.6	67.3	71.6
Sweden	671	59.8	59.8	16.0	10.4	4.9	6.2	2.6	60.1	59.5
Tunisia	592	22.7	22.7	18.4	15.0	6.7	25.0	12.1	23.2	22.3
Ukraine	613	60.2	60.2	14.6	12.4	7.1	3.6	2.0	60.9	59.7
United States	1139	77.5	77.5	7.8	9.7	2.5	1.0	1.6	75.5	79.5
Yemen	828	17.3	17.3	27.1	24.9	10.2	13.1	7.3	20.6	14.7
International Avg.	636	60.0	60.0	13.2	11.4	5.0	6.4	4.0	59.7	60.4
Alberta, Canada	574	74.0	74.0	10.4	8.7	2.2	2.9	1.8	71.8	75.8
British Columbia, Canada	590	72.7	72.7	12.6	7.9	2.4	2.2	2.2	69.0	76.2
Dubai, UAE	431	50.1	50.1	16.9	16.9	5.5	7.0	3.6	48.1	52.0
Massachusetts, US	247	78.6	78.6	4.7	10.2	1.9	2.0	2.5	80.7	76.5
Minnesota, US	262	85.5	85.5	4.8	5.7	2.1	0.0	1.9	81.7	89.0
Ontario, Canada	503	74.3	74.3	8.0	10.2	4.0	1.6	1.8	69.0	80.2
Quebec, Canada	564	61.7	61.7	13.4	12.6	2.8	7.9	1.6	66.1	57.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M031133 - M09\_12)  
 Label: Favorite colors of Darin's friends  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	602	45.4	3.0	12.9	13.9	16.1	8.8	45.4	46.2	44.5
Armenia	593	36.6	0.5	15.9	22.9	13.6	10.4	36.6	34.4	38.3
Australia	580	89.3	0.8	3.2	2.1	1.5	3.1	89.3	90.4	88.1
Austria	688	82.2	1.0	9.2	2.6	4.5	0.4	82.2	80.1	84.4
Chinese Taipei	590	93.6	0.0	4.2	1.7	0.6	0.0	93.6	93.5	93.7
Colombia	700	30.2	4.9	14.7	22.2	15.3	12.7	30.2	27.0	34.3
Czech Republic	607	74.1	0.8	7.8	8.7	7.4	1.2	74.1	75.1	73.3
Denmark	491	82.7	0.0	4.5	3.3	3.4	6.1	82.7	83.2	82.3
El Salvador	598	36.4	5.7	15.7	16.0	15.8	10.4	36.4	39.8	33.5
England	631	89.8	0.2	6.8	0.7	0.6	2.0	89.8	92.4	87.2
Georgia	581	48.3	3.8	9.8	12.7	17.0	8.4	48.3	47.7	48.9
Germany	745	84.8	2.0	6.4	1.1	4.0	1.7	84.8	86.3	83.5
Hong Kong SAR	548	96.4	0.2	2.4	0.0	0.6	0.4	96.4	97.5	95.3
Hungary	579	78.5	2.4	9.8	2.8	4.2	2.2	78.5	78.2	78.9
Iran, Islamic Rep. of	542	47.7	4.6	15.7	10.6	11.3	10.1	47.7	47.6	47.9
Italy	644	74.0	0.6	12.2	4.1	5.3	3.8	74.0	71.7	76.1
Japan	629	88.3	0.3	9.8	0.4	0.5	0.7	88.3	89.6	87.0
Kazakhstan	569	78.2	0.2	9.0	9.8	2.7	0.1	78.2	79.5	76.7
Kuwait	547	27.1	5.9	11.2	28.3	16.2	11.4	27.1	28.3	25.9
Latvia	558	88.9	0.1	5.9	1.5	1.4	2.2	88.9	89.9	88.0
Lithuania	552	89.4	0.1	6.0	0.7	1.3	2.6	89.4	87.7	90.7
Morocco	569	25.3	4.1	13.0	18.1	28.1	11.4	25.3	24.6	26.2
Netherlands	482	89.6	0.1	7.2	2.0	0.3	0.9	89.6	92.4	87.4
New Zealand	715	82.1	1.3	10.8	2.8	1.2	1.9	82.1	81.4	82.6
Norway	575	69.6	2.4	11.8	6.1	3.5	6.6	69.6	65.1	74.1
Qatar	994	27.1	8.8	13.8	30.0	14.1	6.3	27.1	29.4	24.8
Russian Federation	635	79.9	0.8	7.5	3.6	6.1	2.2	79.9	79.0	81.0
Scotland	554	83.9	0.1	7.9	0.7	1.3	6.1	83.9	84.7	83.1
Singapore	716	94.6	0.1	3.3	0.8	0.9	0.4	94.6	93.7	95.3
Slovak Republic	712	71.9	0.4	7.5	9.7	7.2	3.4	71.9	69.7	73.9
Slovenia	615	87.1	1.4	6.1	2.2	0.6	2.6	87.1	90.8	83.6
Sweden	671	86.9	0.9	5.3	1.7	2.2	2.9	86.9	89.5	84.1
Tunisia	592	20.5	1.5	14.0	30.7	17.9	15.4	20.5	21.2	19.8
Ukraine	613	60.4	6.1	9.6	11.7	9.5	2.7	60.4	63.2	58.1
United States	1139	83.4	0.4	11.9	0.1	2.4	1.8	83.4	80.6	86.1
Yemen	828	5.4	6.7	12.5	43.4	22.9	9.0	5.4	5.9	5.1
International Avg.	638	67.5	2.0	9.3	9.2	7.3	4.8	67.5	67.7	67.3
Alberta, Canada	574	86.3	0.9	8.5	0.2	2.3	1.8	86.3	85.9	86.7
British Columbia, Canada	590	83.2	0.5	10.5	1.2	2.3	2.2	83.2	84.0	82.5
Dubai, UAE	431	65.4	2.4	12.4	5.7	9.6	4.6	65.4	66.1	64.6
Massachusetts, US	247	85.4	0.8	10.9	0.0	0.4	2.5	85.4	85.2	85.6
Minnesota, US	262	85.9	0.7	9.2	0.0	2.3	1.9	85.9	87.9	84.1
Ontario, Canada	503	86.1	0.1	9.6	0.0	2.3	2.0	86.1	86.8	85.4
Quebec, Canada	564	89.2	0.1	5.6	2.2	0.9	2.0	89.2	92.4	86.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041107 - M10\_01)  
 Label: Number sentence for a situation  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	510	54.6	11.1	6.9	54.6	3.8	20.4	3.1	56.1	53.0
Armenia	578	78.5	4.2	3.6	78.5	1.6	12.1	0.0	84.7	72.7
Australia	577	81.3	6.3	2.6	81.3	3.8	5.5	0.4	82.5	79.8
Austria	695	89.2	2.2	3.0	89.2	3.1	2.4	0.0	88.4	90.2
Chinese Taipei	588	94.0	2.2	0.9	94.0	1.0	1.9	0.0	94.5	93.5
Colombia	698	44.3	17.9	6.7	44.3	7.2	20.7	3.2	43.7	45.0
Czech Republic	610	86.1	3.7	2.3	86.1	3.0	4.7	0.1	87.6	84.7
Denmark	482	76.5	7.0	2.7	76.5	2.9	9.7	1.3	79.2	73.5
El Salvador	600	38.4	19.6	13.6	38.4	5.6	19.3	3.5	36.7	39.7
England	614	86.0	3.8	2.1	86.0	2.5	5.5	0.1	88.1	84.0
Georgia	590	77.1	6.7	2.7	77.1	0.8	11.4	1.3	83.3	70.5
Germany	741	91.0	1.6	1.8	91.0	0.8	4.6	0.1	92.0	90.1
Hong Kong SAR	537	93.2	1.6	1.9	93.2	1.7	1.7	0.0	93.1	93.3
Hungary	574	87.0	3.5	3.7	87.0	0.4	4.1	1.3	86.9	87.0
Iran, Islamic Rep. of	553	65.5	14.7	3.2	65.5	4.2	10.7	1.7	63.6	67.6
Italy	644	85.6	4.7	1.4	85.6	0.6	7.7	0.0	84.3	86.8
Japan	642	93.4	2.2	0.7	93.4	1.3	2.4	0.0	93.7	93.1
Kazakhstan	571	91.6	4.3	0.7	91.6	1.0	2.5	0.0	91.7	91.4
Kuwait	537	45.9	11.4	6.0	45.9	3.4	32.1	1.1	47.1	44.6
Latvia	561	88.3	1.6	1.4	88.3	0.1	8.0	0.6	85.6	91.1
Lithuania	559	86.9	3.7	2.9	86.9	1.6	4.1	0.8	87.0	86.8
Morocco	427	58.1	11.1	9.2	58.1	5.3	14.2	2.1	54.7	61.0
Netherlands	477	92.3	2.1	1.9	92.3	2.1	1.6	0.0	89.9	94.3
New Zealand	702	80.0	4.4	1.7	80.0	4.5	9.4	0.0	81.6	78.7
Norway	585	78.2	5.2	4.1	78.2	2.3	10.0	0.1	79.0	77.3
Qatar	992	36.8	24.4	6.2	36.8	4.3	27.0	1.2	38.7	34.8
Russian Federation	632	92.8	4.5	1.0	92.8	0.2	1.5	0.0	93.5	92.0
Scotland	558	80.1	5.8	2.7	80.1	3.4	7.5	0.5	78.3	81.9
Singapore	712	91.6	3.8	1.5	91.6	2.3	0.6	0.1	91.9	91.4
Slovak Republic	711	83.6	5.2	3.5	83.6	2.3	5.2	0.2	85.1	82.2
Slovenia	623	83.5	4.3	2.9	83.5	3.9	5.0	0.4	87.7	79.6
Sweden	674	85.2	2.5	2.2	85.2	3.5	6.4	0.3	88.4	82.1
Tunisia	591	47.8	6.1	5.0	47.8	5.9	32.3	3.0	52.2	43.8
Ukraine	612	83.9	7.1	1.6	83.9	1.1	6.4	0.0	85.6	82.3
United States	1138	90.9	3.1	1.3	90.9	2.7	1.8	0.1	89.4	92.4
Yemen	823	28.5	12.3	8.9	28.5	5.6	43.2	1.6	28.2	28.7
International Avg.	631	76.3	6.6	3.5	76.3	2.8	10.1	0.8	77.1	75.6
Alberta, Canada	571	84.9	3.7	1.6	84.9	1.2	8.4	0.1	85.4	84.3
British Columbia, Canada	588	82.5	4.4	1.6	82.5	3.5	7.5	0.5	81.5	83.5
Dubai, UAE	436	30.8	11.6	10.7	30.8	33.5	13.4	0.0	33.0	28.8
Massachusetts, US	248	94.8	0.8	1.2	94.8	1.5	1.6	0.0	95.4	94.3
Minnesota, US	256	90.3	1.9	2.2	90.3	2.9	2.6	0.0	89.1	91.4
Ontario, Canada	500	84.2	4.8	1.7	84.2	3.1	6.1	0.0	88.8	80.0
Quebec, Canada	564	84.1	2.4	3.9	84.1	2.1	7.5	0.0	84.1	84.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041011 - M10\_02)  
 Label: Number 100 more than 5432  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	28.9	37.3	28.9	8.4	11.8	10.1	3.5	30.7	26.7
Armenia	588	59.5	26.0	59.5	6.0	3.0	5.6	0.0	53.7	64.8
Australia	577	65.5	23.5	65.5	3.5	4.0	2.5	0.9	60.4	72.4
Austria	695	73.1	21.7	73.1	1.7	2.1	1.4	0.0	69.0	77.7
Chinese Taipei	588	90.0	7.9	90.0	1.5	0.2	0.5	0.0	88.2	91.7
Colombia	698	19.8	61.5	19.8	5.5	3.4	4.5	5.3	16.5	23.5
Czech Republic	610	74.6	20.3	74.6	2.2	1.7	1.1	0.1	72.7	76.4
Denmark	482	53.8	26.6	53.8	4.0	7.1	7.1	1.3	46.8	61.4
El Salvador	600	23.2	43.0	23.2	14.4	10.9	4.6	3.9	18.1	27.3
England	614	73.4	20.3	73.4	2.5	2.6	1.1	0.1	73.6	73.2
Georgia	590	57.0	32.4	57.0	2.8	3.3	3.1	1.3	55.8	58.3
Germany	741	75.7	17.9	75.7	2.9	2.4	1.0	0.1	72.0	79.4
Hong Kong SAR	537	78.0	15.5	78.0	3.4	2.8	0.3	0.0	76.8	79.2
Hungary	574	73.0	18.5	73.0	4.2	1.2	1.8	1.3	67.9	78.3
Iran, Islamic Rep. of	553	34.3	46.0	34.3	8.5	6.3	3.2	1.7	31.4	37.5
Italy	644	61.6	28.1	61.6	3.9	3.2	3.0	0.1	56.3	66.8
Japan	642	87.9	10.5	87.9	0.4	0.7	0.5	0.0	83.1	92.6
Kazakhstan	571	83.3	11.5	83.3	2.5	2.4	0.3	0.0	82.6	84.2
Kuwait	537	36.4	36.2	36.4	10.6	8.8	6.4	1.5	30.5	43.0
Latvia	561	61.8	21.7	61.8	4.0	9.1	2.8	0.7	54.8	69.1
Lithuania	559	74.5	20.3	74.5	1.5	1.4	1.5	0.8	63.9	83.3
Morocco	527	30.9	25.6	30.9	15.4	16.0	9.6	2.4	31.8	30.4
Netherlands	477	84.6	8.9	84.6	3.8	1.4	1.3	0.0	85.0	84.2
New Zealand	702	66.1	22.4	66.1	5.7	4.2	1.7	0.0	60.7	70.3
Norway	585	57.4	30.5	57.4	4.0	4.0	3.7	0.4	49.0	67.1
Qatar	992	29.5	38.4	29.5	13.0	11.0	6.4	1.7	26.2	33.1
Russian Federation	632	77.7	16.0	77.7	3.0	2.3	1.1	0.0	77.2	78.2
Scotland	558	67.0	25.9	67.0	2.3	2.3	1.6	0.9	66.1	67.8
Singapore	712	94.3	2.3	94.3	1.8	0.9	0.5	0.1	93.5	95.0
Slovak Republic	711	73.6	18.3	73.6	2.5	2.9	2.2	0.3	72.1	75.0
Slovenia	623	69.1	24.3	69.1	2.9	1.5	1.9	0.4	62.5	75.3
Sweden	674	74.2	18.5	74.2	2.4	1.9	2.5	0.5	69.2	79.0
Tunisia	591	39.8	25.7	39.8	10.2	6.7	13.6	3.9	43.3	36.6
Ukraine	612	59.4	29.7	59.4	4.6	3.8	2.5	0.0	56.2	62.5
United States	1138	78.9	14.7	78.9	2.2	2.0	2.0	0.1	75.4	82.3
Yemen	823	23.3	32.9	23.3	17.8	15.2	9.1	1.7	22.8	23.7
International Avg.	636	61.4	24.5	61.4	5.2	4.6	3.4	1.0	58.2	64.6
Alberta, Canada	571	69.5	22.1	69.5	2.5	3.8	2.1	0.1	62.3	76.2
British Columbia, Canada	588	66.4	24.0	66.4	2.5	4.4	2.2	0.5	55.7	76.4
Dubai, UAE	436	53.7	30.8	53.7	3.6	7.9	3.7	0.3	48.2	58.8
Massachusetts, US	248	86.0	10.3	86.0	1.0	1.6	1.2	0.0	80.8	91.7
Minnesota, US	256	83.7	10.3	83.7	2.1	1.0	2.9	0.0	80.2	86.7
Ontario, Canada	500	65.4	28.5	65.4	2.4	2.4	1.4	0.0	55.8	74.2
Quebec, Canada	564	71.5	20.7	71.5	2.3	2.8	2.8	0.0	65.1	76.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041122 - M10\_03)  
 Label: Numbers which are factor of 12  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
Algeria	598	6.0	19.7	54.4	16.0	3.9	25.7	6.0	7.6	4.2
Armenia	584	52.0	23.4	20.9	3.7	0.0	75.4	52.0	51.3	52.7
Australia	577	24.6	12.3	53.8	8.4	0.9	36.9	24.6	22.3	27.7
Austria	695	13.6	22.1	60.6	3.7	0.0	35.7	13.6	11.9	15.7
Chinese Taipei	588	15.3	10.8	68.1	5.8	0.0	26.1	15.3	13.7	16.9
Colombia	698	15.6	10.5	58.7	9.8	5.5	26.1	15.6	14.6	16.7
Czech Republic	610	20.5	25.8	47.9	5.5	0.3	46.3	20.5	23.0	18.1
Denmark	482	38.8	27.6	27.9	4.3	1.3	66.4	38.8	34.0	43.9
El Salvador	600	0.4	2.1	76.7	16.5	4.3	2.5	0.4	0.3	0.5
England	614	34.4	15.4	46.5	3.5	0.2	49.8	34.4	32.3	36.5
Georgia	590	24.4	27.9	38.9	7.5	1.3	52.2	24.4	25.4	23.2
Germany	741	40.0	25.3	30.8	3.8	0.1	65.3	40.0	35.0	45.0
Hong Kong SAR	537	85.1	9.6	4.8	0.4	0.0	94.8	85.1	87.2	83.0
Hungary	574	50.9	18.6	24.6	4.6	1.3	69.5	50.9	47.5	54.5
Iran, Islamic Rep. of	553	3.9	9.7	69.8	15.0	1.7	13.6	3.9	3.9	3.8
Italy	645	26.4	25.4	39.5	8.5	0.1	51.9	26.4	24.1	28.6
Japan	642	6.6	4.1	85.1	4.2	0.0	10.7	6.6	7.3	5.9
Kazakhstan	571	44.7	35.1	18.5	1.7	0.0	79.8	44.7	43.9	45.8
Kuwait	537	9.8	14.3	59.8	14.0	2.2	24.1	9.8	11.4	8.0
Latvia	561	46.0	19.3	26.7	7.2	0.7	65.4	46.0	45.1	47.1
Lithuania	559	35.5	31.3	26.6	5.8	0.8	66.8	35.5	32.7	37.9
Morocco	560	6.5	10.6	56.6	23.9	2.4	17.1	6.5	7.0	6.1
Netherlands	477	27.4	23.2	46.6	2.8	0.0	50.6	27.4	23.1	30.9
New Zealand	702	9.1	11.6	71.5	7.9	0.0	20.6	9.1	8.6	9.4
Norway	585	4.7	4.5	77.7	12.5	0.7	9.1	4.7	4.7	4.6
Qatar	992	20.1	14.9	50.2	13.0	1.8	35.0	20.1	21.6	18.5
Russian Federation	632	43.4	27.0	25.7	3.6	0.4	70.4	43.4	42.2	44.6
Scotland	558	9.0	10.0	65.8	14.1	1.1	19.0	9.0	8.2	9.8
Singapore	712	75.9	10.9	12.7	0.5	0.1	86.7	75.9	77.7	74.3
Slovak Republic	711	32.3	22.4	41.3	3.4	0.7	54.7	32.3	32.9	31.9
Slovenia	623	25.3	25.2	47.6	1.5	0.4	50.5	25.3	25.5	25.1
Sweden	674	6.1	9.0	63.2	21.1	0.6	15.1	6.1	6.6	5.7
Tunisia	591	4.1	9.8	64.0	18.1	3.9	13.9	4.1	4.0	4.2
Ukraine	612	27.0	29.5	35.5	8.0	0.0	56.5	27.0	26.0	27.9
United States	1138	37.0	16.1	43.6	3.1	0.3	53.1	37.0	36.0	37.9
Yemen	823	1.5	9.3	60.0	27.1	2.1	10.9	1.5	1.2	1.8
International Avg.	637	25.7	17.3	47.3	8.6	1.1	43.0	25.7	25.0	26.3
Alberta, Canada	571	7.5	10.3	73.2	8.9	0.1	17.8	7.5	5.5	9.4
British Columbia, Canada	588	17.2	8.0	62.6	11.6	0.5	25.2	17.2	13.6	20.6
Dubai, UAE	436	24.6	13.9	49.3	11.7	0.5	38.5	24.6	24.0	25.1
Massachusetts, US	248	53.4	18.0	27.2	1.4	0.0	71.3	53.4	49.7	57.3
Minnesota, US	256	37.8	16.8	40.4	5.0	0.0	54.6	37.8	25.8	48.2
Ontario, Canada	500	9.1	8.2	75.6	7.1	0.0	17.3	9.1	6.7	11.4
Quebec, Canada	564	29.4	11.6	51.2	7.8	0.0	40.9	29.4	25.5	32.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041041 - M10\_04)  
 Label: Number closest to 9 multiply by 22  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	553	37.5	15.1	25.4	37.5	8.6	8.6	4.8	35.7	39.5
Armenia	588	61.4	6.8	17.9	61.4	6.7	7.3	0.0	57.1	65.3
Australia	577	61.5	10.9	12.5	61.5	11.7	2.4	1.0	61.7	61.1
Austria	695	55.5	8.5	16.9	55.5	10.2	8.7	0.1	48.8	63.0
Chinese Taipei	588	73.7	2.8	15.0	73.7	7.7	0.9	0.0	72.6	74.7
Colombia	698	28.4	30.1	19.3	28.4	10.0	6.2	6.0	24.9	32.5
Czech Republic	610	53.6	13.0	15.3	53.6	9.9	7.9	0.3	50.6	56.5
Denmark	480	72.5	3.7	9.4	72.5	7.5	5.5	1.3	72.4	72.7
El Salvador	600	36.3	23.6	14.5	36.3	11.8	8.8	4.9	36.8	35.9
England	614	71.8	5.4	10.5	71.8	9.8	2.4	0.2	68.2	75.2
Georgia	589	43.8	11.9	25.7	43.8	9.9	7.0	1.6	41.5	46.3
Germany	741	75.6	3.7	8.0	75.6	8.7	3.9	0.1	72.9	78.3
Hong Kong SAR	537	78.5	4.3	10.7	78.5	5.7	0.8	0.0	77.3	79.7
Hungary	574	64.1	3.3	14.4	64.1	13.2	3.5	1.4	64.1	64.2
Iran, Islamic Rep. of	553	33.0	24.6	25.6	33.0	10.3	4.1	2.3	32.6	33.5
Italy	645	53.7	8.3	22.7	53.7	11.2	3.9	0.1	47.2	59.9
Japan	642	77.4	2.8	10.4	77.4	8.3	1.2	0.0	74.9	79.8
Kazakhstan	570	68.8	3.6	20.1	68.8	6.9	0.7	0.0	66.8	71.3
Kuwait	537	38.5	12.7	22.5	38.5	14.6	9.3	2.4	37.2	40.0
Latvia	561	63.1	6.4	21.8	63.1	5.6	2.4	0.7	54.4	72.2
Lithuania	559	59.4	7.8	22.6	59.4	5.9	3.6	0.8	56.7	61.6
Morocco	526	46.9	11.6	20.3	46.9	8.2	9.6	3.4	44.8	49.0
Netherlands	477	83.4	2.5	7.5	83.4	6.6	0.0	0.0	81.5	84.9
New Zealand	702	61.9	10.7	12.3	61.9	12.2	2.8	0.1	63.5	60.7
Norway	585	64.8	6.8	12.0	64.8	9.8	6.0	0.7	65.6	63.8
Qatar	992	35.9	18.2	20.3	35.9	14.9	8.3	2.3	34.7	37.2
Russian Federation	632	65.5	4.8	19.8	65.5	7.2	1.3	1.3	65.2	65.9
Scotland	558	62.8	7.6	9.7	62.8	12.8	5.6	1.5	62.8	62.9
Singapore	712	81.8	4.6	7.6	81.8	5.3	0.6	0.1	81.3	82.2
Slovak Republic	711	58.6	10.2	13.2	58.6	11.6	5.7	0.7	53.8	63.0
Slovenia	623	51.1	10.8	20.1	51.1	13.3	4.2	0.4	45.1	56.7
Sweden	674	69.5	6.0	9.1	69.5	8.4	5.8	1.1	67.3	71.7
Tunisia	591	30.5	13.9	24.2	30.5	7.2	19.4	4.7	28.9	32.0
Ukraine	612	51.7	8.5	25.9	51.7	11.5	2.3	0.1	49.2	54.0
United States	1138	66.1	7.1	14.2	66.1	10.3	1.7	0.5	64.6	67.6
Yemen	823	28.1	16.2	22.8	28.1	15.7	14.9	2.3	25.7	29.8
International Avg.	635	57.4	9.7	16.7	57.4	9.7	5.2	1.3	55.2	59.6
Alberta, Canada	571	63.1	9.5	12.0	63.1	12.1	3.2	0.1	60.5	65.6
British Columbia, Canada	588	65.1	6.7	11.4	65.1	12.4	3.9	0.5	59.7	70.1
Dubai, UAE	436	45.7	14.0	17.7	45.7	14.3	6.9	1.3	52.9	39.3
Massachusetts, US	248	80.2	2.7	9.4	80.2	4.9	2.9	0.0	78.5	81.9
Minnesota, US	256	73.7	5.7	11.3	73.7	8.1	1.2	0.0	66.9	79.6
Ontario, Canada	500	64.9	10.8	10.1	64.9	9.9	4.1	0.2	60.2	69.3
Quebec, Canada	564	65.0	9.8	12.8	65.0	10.2	2.2	0.0	61.1	68.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041320 - M10\_05)  
 Label: Equivalent fractions  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	567	31.0	14.8	31.1	8.0	31.0	9.7	5.5	31.2	30.7
Armenia	588	61.7	6.8	19.9	4.0	61.7	7.7	0.0	65.3	58.4
Australia	577	53.4	13.3	21.3	8.3	53.4	2.6	1.0	51.1	56.3
Austria	695	46.7	22.5	19.4	5.9	46.7	5.2	0.3	41.8	52.1
Chinese Taipei	588	64.5	4.1	24.5	4.7	64.5	2.2	0.0	64.3	64.6
Colombia	698	15.8	16.9	42.5	8.1	15.8	9.1	7.6	18.5	12.7
Czech Republic	610	17.4	31.1	21.4	10.6	17.4	19.3	0.3	15.8	18.9
Denmark	483	53.7	19.1	14.9	3.6	53.7	7.0	1.6	50.6	57.1
El Salvador	600	12.8	18.1	44.0	10.6	12.8	8.1	6.4	13.6	12.2
England	614	74.4	6.9	11.0	5.4	74.4	2.1	0.3	73.3	75.6
Georgia	589	35.3	13.9	33.3	7.7	35.3	6.8	3.0	32.8	37.9
Germany	741	41.4	18.8	27.3	5.4	41.4	6.9	0.3	38.0	44.9
Hong Kong SAR	537	89.2	2.5	5.5	2.2	89.2	0.5	0.0	92.2	86.1
Hungary	574	49.9	18.6	18.1	7.0	49.9	5.1	1.4	46.1	53.8
Iran, Islamic Rep. of	553	19.9	21.7	39.8	9.5	19.9	6.7	2.5	20.0	19.7
Italy	645	44.1	16.8	27.0	6.3	44.1	5.1	0.7	40.5	47.5
Japan	642	52.2	11.9	24.1	10.7	52.2	1.1	0.0	49.2	55.1
Kazakhstan	571	60.8	12.1	16.9	7.2	60.8	3.0	0.0	60.3	61.6
Kuwait	537	18.4	18.9	39.3	12.8	18.4	7.6	2.9	17.8	19.0
Latvia	561	46.1	13.3	28.1	8.0	46.1	3.8	0.7	43.9	48.4
Lithuania	559	53.4	12.6	24.9	3.9	53.4	4.3	0.9	51.1	55.3
Morocco	535	18.9	21.3	31.1	12.0	18.9	12.6	4.2	17.0	20.6
Netherlands	477	66.1	14.4	13.0	5.0	66.1	1.5	0.0	62.4	69.1
New Zealand	702	61.8	11.9	19.3	4.9	61.8	2.0	0.1	57.9	64.8
Norway	585	36.3	23.6	29.7	6.8	36.3	2.7	0.9	34.2	38.9
Qatar	992	18.0	16.1	43.3	13.2	18.0	6.4	2.9	18.0	18.1
Russian Federation	632	39.5	22.4	22.8	8.7	39.5	5.3	1.3	38.8	40.4
Scotland	558	50.3	13.7	22.6	7.8	50.3	3.9	1.7	45.9	54.4
Singapore	712	86.3	2.8	8.4	1.8	86.3	0.5	0.1	86.8	86.0
Slovak Republic	711	31.5	26.2	27.0	8.5	31.5	6.0	0.7	26.9	35.8
Slovenia	623	36.3	22.1	31.4	5.3	36.3	4.2	0.6	33.0	39.4
Sweden	674	39.9	19.9	23.9	7.5	39.9	7.9	1.1	38.0	41.7
Tunisia	591	13.0	20.1	28.6	17.2	13.0	15.8	5.3	13.8	12.3
Ukraine	612	31.3	20.2	36.3	7.6	31.3	4.5	0.1	30.2	32.3
United States	1138	72.5	5.0	16.0	4.8	72.5	1.1	0.5	72.2	72.9
Yemen	823	17.0	14.1	40.3	16.2	17.0	9.1	3.3	14.1	19.2
International Avg.	636	43.4	15.8	25.8	7.7	43.4	5.8	1.6	41.8	44.8
Alberta, Canada	571	44.0	18.1	27.0	7.2	44.0	3.4	0.3	38.1	49.6
British Columbia, Canada	588	50.2	17.2	20.5	7.8	50.2	3.7	0.6	44.8	55.2
Dubai, UAE	436	39.2	13.2	32.5	8.7	39.2	4.8	1.6	40.2	38.4
Massachusetts, US	248	81.8	3.8	8.0	3.3	81.8	2.8	0.3	78.7	85.2
Minnesota, US	256	82.0	4.7	8.1	3.0	82.0	2.3	0.0	78.3	85.1
Ontario, Canada	500	51.0	19.7	18.4	7.8	51.0	2.9	0.3	43.2	58.2
Quebec, Canada	564	63.0	9.7	18.0	6.6	63.0	2.7	0.0	63.1	62.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041115A - M10\_06A)  
 Label: Draw figure 5  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	34.8	4.4	25.9	29.2	5.7	34.8	35.8	33.7
Armenia	590	60.7	2.4	17.4	19.5	0.0	60.7	65.8	56.0
Australia	577	61.8	13.5	18.6	5.0	1.1	61.8	62.1	61.4
Austria	695	62.2	9.5	19.1	8.9	0.4	62.2	65.0	59.0
Chinese Taipei	588	77.3	5.4	14.0	3.3	0.0	77.3	75.1	79.4
Colombia	698	34.1	7.9	36.6	13.5	8.0	34.1	34.4	33.9
Czech Republic	610	64.4	10.1	18.1	7.2	0.3	64.4	65.5	63.2
Denmark	482	65.7	7.7	17.5	6.6	2.5	65.7	67.1	64.3
El Salvador	600	21.3	5.9	40.3	26.1	6.4	21.3	21.4	21.2
England	614	65.9	11.9	16.1	5.8	0.3	65.9	67.6	64.2
Georgia	590	30.8	5.7	28.8	31.1	3.5	30.8	36.2	25.0
Germany	741	71.8	7.1	14.2	6.6	0.3	71.8	72.1	71.6
Hong Kong SAR	537	77.0	9.8	11.2	2.0	0.0	77.0	79.9	74.0
Hungary	574	55.4	9.0	27.9	6.2	1.6	55.4	50.1	60.9
Iran, Islamic Rep. of	553	25.8	3.5	24.9	43.1	2.8	25.8	27.3	24.1
Italy	645	64.5	10.0	14.1	10.3	1.0	64.5	62.8	66.3
Japan	642	84.7	4.5	9.3	1.6	0.0	84.7	85.8	83.6
Kazakhstan	571	67.5	9.5	9.6	13.4	0.0	67.5	68.2	66.6
Kuwait	537	13.1	3.6	52.2	28.0	3.1	13.1	13.2	13.0
Latvia	561	58.8	13.4	23.4	3.4	0.9	58.8	61.8	55.7
Lithuania	559	64.5	12.2	13.1	9.3	0.9	64.5	66.6	62.8
Morocco	559	27.9	2.0	23.3	41.9	5.0	27.9	25.6	30.0
Netherlands	477	72.1	9.8	14.5	3.7	0.0	72.1	76.5	68.5
New Zealand	702	66.7	10.7	18.1	4.0	0.4	66.7	69.6	64.5
Norway	585	57.5	10.6	23.7	7.4	0.9	57.5	59.9	54.8
Qatar	992	19.9	5.3	44.8	27.0	3.0	19.9	22.6	16.9
Russian Federation	632	65.1	11.6	14.9	7.1	1.3	65.1	67.7	62.2
Scotland	558	62.5	8.1	20.4	7.4	1.7	62.5	63.5	61.5
Singapore	712	76.0	13.3	6.4	4.2	0.1	76.0	78.9	73.6
Slovak Republic	711	50.8	8.6	25.7	14.0	0.9	50.8	49.4	52.2
Slovenia	623	63.9	6.6	26.1	2.5	0.9	63.9	64.3	63.4
Sweden	674	63.3	12.4	18.2	5.1	1.1	63.3	65.3	61.3
Tunisia	591	25.3	6.6	44.8	17.5	5.9	25.3	29.2	21.6
Ukraine	612	51.7	12.1	20.7	15.4	0.1	51.7	54.9	48.8
United States	1138	66.5	12.3	16.7	3.9	0.5	66.5	70.0	63.1
Yemen	823	6.4	2.1	32.6	55.2	3.6	6.4	6.4	6.5
International Avg.	638	53.8	8.3	22.3	13.8	1.8	53.8	55.2	52.5
Alberta, Canada	571	68.3	14.1	14.0	3.3	0.3	68.3	66.9	69.5
British Columbia, Canada	588	65.0	15.1	14.7	4.5	0.6	65.0	58.8	70.9
Dubai, UAE	436	17.2	9.9	44.1	27.2	1.6	17.2	18.6	15.9
Massachusetts, US	248	77.0	7.3	12.9	2.4	0.3	77.0	74.1	80.2
Minnesota, US	256	72.0	13.0	10.5	4.5	0.0	72.0	73.7	70.5
Ontario, Canada	500	65.4	17.1	12.8	4.4	0.3	65.4	69.1	62.0
Quebec, Canada	564	69.3	8.8	17.8	4.0	0.0	69.3	70.8	68.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M041115B - M10\_06B)  
 Label: Number of squares for figure 16  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	23.2	49.4	21.1	6.3	23.2	20.9	25.8
Armenia	590	46.3	36.2	17.5	0.0	46.3	47.4	45.3
Australia	577	43.6	48.3	7.0	1.1	43.6	44.5	42.5
Austria	695	52.5	36.1	10.4	1.0	52.5	48.2	57.3
Chinese Taipei	588	70.2	27.6	2.2	0.0	70.2	69.4	71.0
Colombia	698	15.4	59.9	14.8	9.8	15.4	15.8	15.0
Czech Republic	610	45.6	44.1	9.9	0.4	45.6	44.3	47.0
Denmark	482	54.0	35.0	8.1	2.9	54.0	53.7	54.3
El Salvador	600	10.9	66.9	14.3	7.8	10.9	10.0	11.7
England	614	60.3	36.5	2.8	0.3	60.3	60.0	60.7
Georgia	590	23.1	43.4	29.2	4.3	23.1	23.7	22.4
Germany	741	59.7	33.3	6.8	0.3	59.7	58.1	61.2
Hong Kong SAR	537	70.0	28.6	1.4	0.0	70.0	72.2	67.7
Hungary	574	45.7	43.2	9.1	2.0	45.7	42.4	49.2
Iran, Islamic Rep. of	553	20.4	60.9	14.0	4.7	20.4	20.9	19.8
Italy	645	50.3	38.4	9.7	1.6	50.3	49.1	51.4
Japan	642	69.0	29.6	1.3	0.1	69.0	69.4	68.7
Kazakhstan	571	61.1	36.5	2.4	0.0	61.1	58.5	64.3
Kuwait	537	4.0	61.8	29.6	4.6	4.0	4.4	3.6
Latvia	561	51.2	43.2	4.7	0.9	51.2	51.6	50.8
Lithuania	559	56.1	38.2	4.8	0.9	56.1	55.2	56.8
Morocco	559	17.2	47.6	29.6	5.6	17.2	13.5	20.5
Netherlands	477	55.7	42.2	2.1	0.0	55.7	53.4	57.7
New Zealand	702	50.2	46.2	3.1	0.5	50.2	51.4	49.1
Norway	585	41.2	50.7	6.6	1.5	41.2	45.3	36.5
Qatar	992	6.8	68.6	20.9	3.7	6.8	6.6	7.0
Russian Federation	632	57.3	34.6	6.8	1.3	57.3	60.8	53.5
Scotland	558	50.3	41.4	6.4	2.0	50.3	50.7	49.9
Singapore	712	74.9	24.9	0.0	0.1	74.9	77.4	72.8
Slovak Republic	711	40.8	44.2	14.1	0.9	40.8	37.6	43.7
Slovenia	623	48.1	47.4	3.3	1.2	48.1	46.9	49.3
Sweden	674	54.8	37.5	6.0	1.7	54.8	59.9	49.9
Tunisia	591	10.8	60.1	22.1	7.0	10.8	10.3	11.2
Ukraine	612	40.4	49.5	9.9	0.2	40.4	41.0	39.9
United States	1138	55.4	42.6	1.3	0.8	55.4	58.4	52.3
Yemen	823	3.2	75.3	17.0	4.5	3.2	2.2	4.0
International Avg.	638	42.8	44.7	10.3	2.2	42.8	42.6	42.9
Alberta, Canada	571	55.4	40.3	4.1	0.3	55.4	57.8	53.1
British Columbia, Canada	588	50.9	43.6	4.8	0.6	50.9	45.3	56.2
Dubai, UAE	436	13.8	60.1	24.5	1.6	13.8	13.9	13.7
Massachusetts, US	248	70.4	27.5	1.5	0.6	70.4	68.1	72.8
Minnesota, US	256	62.0	37.4	0.6	0.0	62.0	64.8	59.5
Ontario, Canada	500	59.0	37.8	2.8	0.4	59.0	61.4	56.8
Quebec, Canada	564	56.6	39.2	4.2	0.0	56.6	57.8	55.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041160A - M10\_07A)  
 Label: Position of the shop  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	599	48.9	32.2	12.3	6.6	48.9	50.2	47.4
Armenia	591	65.2	20.7	14.0	0.1	65.2	67.5	63.0
Australia	577	89.2	7.2	1.6	2.0	89.2	90.8	87.1
Austria	695	89.0	7.7	2.3	1.0	89.0	88.6	89.4
Chinese Taipei	588	83.0	16.7	0.3	0.0	83.0	85.6	80.6
Colombia	698	38.7	39.0	10.0	12.2	38.7	38.7	38.8
Czech Republic	610	88.9	6.4	4.2	0.5	88.9	90.1	87.7
Denmark	482	91.8	4.5	0.5	3.3	91.8	94.5	88.9
El Salvador	600	33.4	47.2	11.4	8.0	33.4	34.1	32.8
England	614	92.0	6.9	0.8	0.3	92.0	93.2	90.9
Georgia	590	40.0	32.9	21.2	5.9	40.0	40.7	39.2
Germany	741	94.7	3.5	1.6	0.3	94.7	96.0	93.5
Hong Kong SAR	537	97.4	2.1	0.5	0.0	97.4	97.3	97.6
Hungary	574	78.3	14.0	5.0	2.7	78.3	72.5	84.3
Iran, Islamic Rep. of	553	52.5	33.7	8.9	4.9	52.5	50.7	54.5
Italy	645	87.2	8.0	3.1	1.6	87.2	84.3	90.0
Japan	642	93.2	5.8	0.7	0.3	93.2	94.6	91.9
Kazakhstan	571	81.7	16.1	2.2	0.0	81.7	80.4	83.3
Kuwait	537	29.6	43.5	21.5	5.4	29.6	30.0	29.1
Latvia	561	92.3	5.5	0.7	1.5	92.3	92.0	92.6
Lithuania	559	88.6	7.8	2.3	1.3	88.6	87.4	89.6
Morocco	559	43.8	26.5	23.3	6.4	43.8	41.3	45.8
Netherlands	477	94.6	4.6	0.8	0.0	94.6	94.6	94.5
New Zealand	702	79.7	16.9	2.4	1.0	79.7	79.2	80.1
Norway	585	81.4	12.7	3.6	2.3	81.4	81.7	81.1
Qatar	992	24.1	52.5	19.3	4.0	24.1	25.3	22.9
Russian Federation	632	81.8	12.8	3.4	1.9	81.8	83.5	80.0
Scotland	558	86.9	8.5	2.2	2.4	86.9	88.2	85.8
Singapore	712	84.1	15.4	0.4	0.1	84.1	84.7	83.5
Slovak Republic	711	81.6	11.1	6.4	0.9	81.6	79.5	83.6
Slovenia	623	95.6	2.0	0.6	1.7	95.6	96.6	94.7
Sweden	674	87.4	7.7	2.9	2.0	87.4	88.2	86.6
Tunisia	591	30.4	45.3	16.5	7.8	30.4	32.6	28.3
Ukraine	612	73.4	20.5	5.6	0.5	73.4	73.8	73.0
United States	1138	87.6	10.8	0.9	0.8	87.6	88.0	87.2
Yemen	820	10.4	62.8	21.9	4.9	10.4	10.1	10.7
International Avg.	638	72.2	18.7	6.5	2.6	72.2	72.4	72.0
Alberta, Canada	571	89.2	8.5	1.7	0.6	89.2	90.5	88.0
British Columbia, Canada	588	88.0	8.5	1.8	1.8	88.0	87.7	88.2
Dubai, UAE	436	69.0	21.6	7.2	2.1	69.0	70.5	67.7
Massachusetts, US	248	90.8	7.1	1.5	0.6	90.8	88.5	93.4
Minnesota, US	256	89.8	9.5	0.7	0.0	89.8	89.7	90.0
Ontario, Canada	500	89.4	8.7	1.6	0.4	89.4	89.4	89.3
Quebec, Canada	564	87.3	9.0	3.5	0.2	87.3	90.7	84.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041160B - M10\_07B)

Label: Mark Lucy's house

Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	599	49.8	19.7	23.6	6.8	49.8	48.9	50.8
Armenia	590	66.9	15.3	17.7	0.1	66.9	67.3	66.5
Australia	577	90.2	4.1	3.3	2.3	90.2	90.5	89.9
Austria	695	89.7	3.2	6.1	1.0	89.7	89.1	90.3
Chinese Taipei	588	93.3	4.7	2.0	0.0	93.3	93.0	93.6
Colombia	698	44.4	25.1	16.0	14.5	44.4	43.5	45.3
Czech Republic	610	86.7	3.7	7.4	2.2	86.7	87.5	85.9
Denmark	482	92.6	1.8	1.8	3.8	92.6	95.5	89.5
El Salvador	600	36.0	28.1	26.5	9.4	36.0	35.1	36.7
England	614	92.6	2.0	5.1	0.3	92.6	95.1	90.3
Georgia	590	40.4	13.0	40.4	6.2	40.4	44.0	36.6
Germany	741	94.9	2.0	2.2	0.9	94.9	96.5	93.2
Hong Kong SAR	537	95.3	2.6	2.1	0.0	95.3	96.1	94.5
Hungary	574	82.7	6.5	7.2	3.6	82.7	80.2	85.4
Iran, Islamic Rep. of	553	61.4	18.0	14.1	6.5	61.4	66.2	56.0
Italy	645	91.9	1.9	4.0	2.2	91.9	91.0	92.8
Japan	642	95.6	3.2	0.7	0.5	95.6	97.7	93.5
Kazakhstan	571	81.0	10.7	8.2	0.0	81.0	80.7	81.5
Kuwait	537	30.2	30.2	33.0	6.6	30.2	33.9	26.0
Latvia	561	94.4	2.1	1.8	1.6	94.4	96.0	92.7
Lithuania	559	91.2	3.5	3.6	1.6	91.2	91.4	91.1
Morocco	559	35.3	20.3	36.8	7.6	35.3	32.7	37.7
Netherlands	477	96.4	2.5	0.6	0.5	96.4	97.2	95.8
New Zealand	702	87.3	6.6	4.8	1.2	87.3	89.0	86.0
Norway	585	85.2	6.8	4.9	3.1	85.2	86.4	83.9
Qatar	992	22.3	33.4	39.2	5.1	22.3	23.8	20.6
Russian Federation	632	83.1	8.3	6.5	2.1	83.1	85.4	80.7
Scotland	558	89.6	2.7	5.0	2.8	89.6	91.8	87.6
Singapore	712	93.7	3.9	2.3	0.1	93.7	96.6	91.3
Slovak Republic	711	83.6	7.7	7.1	1.5	83.6	81.2	85.9
Slovenia	623	94.4	1.9	1.7	2.0	94.4	94.5	94.3
Sweden	674	90.8	2.8	4.1	2.3	90.8	93.1	88.7
Tunisia	591	33.8	34.0	21.2	11.0	33.8	36.6	31.2
Ukraine	612	69.0	12.2	17.8	1.0	69.0	69.8	68.3
United States	1138	92.5	4.3	2.3	0.9	92.5	92.5	92.5
Yemen	820	7.0	35.2	52.4	5.4	7.0	11.1	3.9
International Avg.	637	74.0	10.7	12.0	3.2	74.0	75.0	73.1
Alberta, Canada	571	93.2	3.6	2.6	0.6	93.2	95.7	90.8
British Columbia, Canada	588	92.4	2.9	2.9	1.8	92.4	92.1	92.7
Dubai, UAE	436	66.5	13.4	17.6	2.5	66.5	70.8	62.6
Massachusetts, US	248	95.3	1.5	1.4	1.8	95.3	94.8	95.8
Minnesota, US	256	95.1	2.9	2.0	0.0	95.1	96.5	94.0
Ontario, Canada	500	95.7	1.7	2.2	0.5	95.7	98.0	93.5
Quebec, Canada	564	91.5	2.7	5.2	0.6	91.5	92.7	90.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041327 - M10\_08)  
 Label: Draw the line of symmetry  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	18.6	38.0	36.0	7.5	18.6	17.9	19.3
Armenia	589	63.1	19.9	16.9	0.1	63.1	65.8	60.7
Australia	577	78.0	16.7	3.0	2.3	78.0	82.5	72.0
Austria	695	29.2	35.8	33.9	1.0	29.2	28.8	29.7
Chinese Taipei	588	27.4	58.4	14.2	0.0	27.4	26.0	28.8
Colombia	698	13.4	44.3	26.9	15.4	13.4	10.6	16.5
Czech Republic	610	34.0	28.3	35.5	2.2	34.0	37.5	30.5
Denmark	482	29.3	57.9	8.7	4.0	29.3	33.4	25.0
El Salvador	600	14.9	40.0	35.6	9.5	14.9	14.9	14.9
England	614	83.0	13.2	3.5	0.4	83.0	86.4	79.6
Georgia	589	35.0	22.6	35.4	7.1	35.0	37.2	32.6
Germany	741	54.6	29.8	14.7	0.9	54.6	57.2	52.0
Hong Kong SAR	537	95.9	3.9	0.2	0.0	95.9	96.7	95.2
Hungary	574	52.9	27.7	15.6	3.9	52.9	50.6	55.3
Iran, Islamic Rep. of	553	47.8	29.4	15.8	7.1	47.8	50.0	45.4
Italy	645	54.3	31.0	12.4	2.3	54.3	50.4	58.0
Japan	642	46.9	44.3	8.3	0.5	46.9	46.7	47.1
Kazakhstan	571	65.9	20.5	13.6	0.0	65.9	68.1	63.3
Kuwait	537	11.9	51.2	30.4	6.6	11.9	13.4	10.2
Latvia	561	33.2	50.9	14.3	1.6	33.2	29.2	37.4
Lithuania	559	63.4	26.8	8.1	1.6	63.4	68.8	59.0
Morocco	559	37.5	31.4	22.7	8.3	37.5	41.8	33.9
Netherlands	477	21.9	63.3	14.3	0.5	21.9	23.3	20.7
New Zealand	702	59.5	31.5	7.6	1.4	59.5	64.9	55.2
Norway	585	30.0	43.6	23.3	3.1	30.0	30.8	28.9
Qatar	992	13.9	50.1	30.5	5.5	13.9	14.6	13.1
Russian Federation	632	59.0	21.4	17.2	2.3	59.0	59.7	58.4
Scotland	558	80.1	13.5	3.6	2.8	80.1	83.3	77.1
Singapore	712	91.3	8.1	0.4	0.1	91.3	94.7	88.4
Slovak Republic	711	23.9	34.9	39.8	1.5	23.9	20.6	26.9
Slovenia	623	50.0	41.5	6.5	2.0	50.0	50.1	49.8
Sweden	674	22.5	43.6	31.3	2.5	22.5	21.3	23.7
Tunisia	591	8.8	40.1	40.0	11.1	8.8	12.3	5.6
Ukraine	612	37.2	34.1	27.7	1.1	37.2	39.1	35.4
United States	1138	81.3	16.2	1.5	0.9	81.3	82.4	80.3
Yemen	822	6.3	36.7	51.3	5.8	6.3	7.6	5.3
International Avg.	638	43.8	33.3	19.5	3.4	43.8	45.0	42.6
Alberta, Canada	571	64.0	28.9	6.5	0.6	64.0	60.6	67.2
British Columbia, Canada	588	62.0	25.1	11.1	1.8	62.0	64.3	59.9
Dubai, UAE	436	42.4	33.2	21.4	2.9	42.4	46.6	38.7
Massachusetts, US	248	87.0	10.8	0.5	1.8	87.0	88.0	85.8
Minnesota, US	256	88.1	10.5	1.4	0.0	88.1	89.3	87.1
Ontario, Canada	500	88.5	7.8	3.2	0.5	88.5	89.9	87.2
Quebec, Canada	564	36.2	45.1	17.7	0.9	36.2	37.3	35.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041148 - M10\_09)  
 Label: Statement about 3-D figures  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	.	.	.	.	.	.	.	.	.	.
Armenia	590	32.6	21.1	27.0	18.4	0.9	53.7	32.6	30.3	34.7
Australia	577	42.1	26.6	26.7	2.2	2.4	68.7	42.1	42.3	41.8
Austria	695	54.4	28.7	13.2	2.7	1.1	83.1	54.4	52.6	56.5
Chinese Taipei	588	59.6	28.9	11.3	0.2	0.0	88.5	59.6	60.5	58.8
Colombia	698	13.2	27.7	36.7	5.5	17.0	40.8	13.2	12.5	14.0
Czech Republic	610	11.4	35.4	42.6	7.8	2.7	46.8	11.4	13.7	9.2
Denmark	482	45.3	32.0	17.0	1.6	4.0	77.3	45.3	44.7	46.0
El Salvador	600	10.5	20.8	46.2	12.3	10.2	31.3	10.5	11.1	10.0
England	614	55.0	28.9	13.7	1.7	0.8	83.8	55.0	58.3	51.8
Georgia	590	17.5	15.7	31.4	28.0	7.5	33.2	17.5	18.9	16.0
Germany	741	44.4	31.9	19.7	2.8	1.3	76.2	44.4	46.3	42.5
Hong Kong SAR	537	55.6	26.0	18.5	0.0	0.0	81.5	55.6	52.5	58.7
Hungary	574	36.3	36.4	20.2	2.8	4.3	72.7	36.3	34.9	37.7
Iran, Islamic Rep. of	553	3.2	19.5	64.0	4.7	8.6	22.7	3.2	1.7	4.9
Italy	645	41.0	37.1	17.1	2.4	2.4	78.0	41.0	38.6	43.2
Japan	642	47.5	33.8	17.2	0.7	0.7	81.3	47.5	50.2	44.9
Kazakhstan	571	21.5	35.8	37.9	4.8	0.1	57.3	21.5	21.7	21.2
Kuwait	537	21.0	15.5	47.9	7.9	7.7	36.5	21.0	18.2	24.1
Latvia	561	24.8	42.6	30.5	0.5	1.6	67.4	24.8	22.4	27.3
Lithuania	559	33.0	39.6	23.9	1.7	1.8	72.6	33.0	32.4	33.6
Morocco	.	.	.	.	.	.	.	.	.	.
Netherlands	477	19.4	43.6	35.9	0.7	0.5	62.9	19.4	17.4	21.0
New Zealand	702	35.9	33.1	27.2	2.2	1.5	69.0	35.9	34.2	37.3
Norway	585	17.1	52.6	23.7	2.4	4.2	69.7	17.1	15.9	18.5
Qatar	992	5.7	30.1	48.7	9.5	5.9	35.8	5.7	5.7	5.6
Russian Federation	632	22.6	34.1	37.2	3.5	2.6	56.7	22.6	19.5	26.0
Scotland	558	43.5	32.8	18.7	1.8	3.2	76.3	43.5	42.6	44.4
Singapore	712	42.3	33.3	24.1	0.2	0.1	75.6	42.3	43.7	41.1
Slovak Republic	711	13.1	37.1	40.5	7.4	1.8	50.3	13.1	11.3	14.8
Slovenia	623	33.7	46.3	16.0	1.4	2.6	80.0	33.7	31.6	35.6
Sweden	674	22.3	47.3	24.7	2.6	3.1	69.6	22.3	20.2	24.3
Tunisia	591	7.5	33.1	40.5	6.9	12.0	40.6	7.5	8.9	6.2
Ukraine	612	20.7	25.0	41.3	11.8	1.2	45.7	20.7	19.6	21.7
United States	1138	44.8	31.7	21.3	1.1	0.9	76.6	44.8	43.2	46.4
Yemen	822	0.9	12.1	64.5	16.3	6.2	13.0	0.9	0.5	1.2
International Avg.	641	29.4	31.6	30.2	5.2	3.6	61.0	29.4	28.8	30.0
Alberta, Canada	571	32.2	34.3	29.9	2.6	1.0	66.5	32.2	32.1	32.2
British Columbia, Canada	588	35.7	31.1	29.5	1.3	2.4	66.8	35.7	37.2	34.3
Dubai, UAE	436	26.0	33.9	33.5	3.1	3.5	59.8	26.0	26.0	26.0
Massachusetts, US	248	53.3	27.2	17.4	0.3	1.8	80.5	53.3	54.2	52.3
Minnesota, US	256	56.6	25.5	16.4	1.4	0.1	82.1	56.6	51.7	60.7
Ontario, Canada	500	43.9	28.1	25.8	1.7	0.5	72.0	43.9	43.3	44.5
Quebec, Canada	564	53.2	31.7	11.7	2.1	1.3	84.9	53.2	53.9	52.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041265 - M10\_10)  
 Label: Relating net with its 3-D figure  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	509	23.2	17.2	19.4	11.8	23.2	17.7	10.8	24.8	21.2
Armenia	574	33.4	13.3	26.5	7.6	33.4	15.9	3.3	34.0	32.9
Australia	577	39.6	17.6	27.3	5.0	39.6	7.9	2.6	42.8	35.4
Austria	695	40.2	20.1	21.0	2.2	40.2	15.4	1.1	38.2	42.4
Chinese Taipei	588	75.8	8.2	3.1	1.2	75.8	11.8	0.0	80.8	71.1
Colombia	698	16.3	19.3	26.6	9.2	16.3	11.2	17.5	17.7	14.6
Czech Republic	610	43.3	37.2	4.4	1.9	43.3	10.3	2.8	44.2	42.5
Denmark	471	35.8	21.5	14.4	8.8	35.8	14.9	4.5	36.6	34.9
El Salvador	600	17.4	29.4	22.7	11.4	17.4	8.6	10.5	15.8	18.7
England	614	49.3	16.4	21.8	2.4	49.3	9.1	1.0	50.3	48.4
Georgia	590	13.3	11.3	48.0	8.1	13.3	10.9	8.3	14.1	12.5
Germany	741	45.3	11.9	11.3	1.8	45.3	27.9	1.8	45.0	45.5
Hong Kong SAR	537	64.7	11.9	11.5	2.6	64.7	9.2	0.0	66.3	63.1
Hungary	574	39.3	28.4	10.4	2.9	39.3	14.5	4.6	38.2	40.4
Iran, Islamic Rep. of	553	14.5	30.6	20.4	12.1	14.5	12.7	9.7	16.0	12.9
Italy	609	41.4	34.0	10.4	3.8	41.4	7.8	2.6	40.4	42.3
Japan	642	66.6	13.9	5.5	2.4	66.6	10.4	1.2	68.8	64.5
Kazakhstan	571	58.7	20.5	15.0	5.1	58.7	0.5	0.1	57.4	60.3
Kuwait	537	9.7	25.3	19.9	17.1	9.7	20.3	7.7	9.8	9.6
Latvia	561	45.0	23.2	12.8	4.7	45.0	12.7	1.6	44.1	45.9
Lithuania	559	38.9	14.5	16.0	4.4	38.9	24.1	2.0	44.5	34.3
Morocco	468	22.3	16.9	21.9	14.0	22.3	13.4	11.6	22.1	22.6
Netherlands	477	50.3	17.4	12.6	6.4	50.3	12.6	0.7	50.8	49.9
New Zealand	702	46.3	19.0	21.9	3.4	46.3	7.8	1.6	47.9	45.0
Norway	585	32.3	20.0	23.1	8.1	32.3	11.8	4.8	37.2	26.6
Qatar	992	10.2	26.8	19.1	17.8	10.2	19.8	6.2	12.1	8.1
Russian Federation	632	49.5	23.3	13.4	4.6	49.5	6.5	2.7	49.3	49.7
Scotland	558	32.8	18.0	31.6	4.3	32.8	9.3	4.0	32.4	33.2
Singapore	712	52.4	27.9	13.3	5.7	52.4	0.5	0.1	56.4	49.0
Slovak Republic	711	33.8	25.3	14.1	10.5	33.8	14.2	2.1	36.2	31.5
Slovenia	623	40.3	38.9	6.2	3.0	40.3	8.5	3.1	44.4	36.5
Sweden	674	30.3	18.9	26.0	7.0	30.3	14.0	3.8	30.7	29.9
Tunisia	591	6.9	8.0	19.9	7.7	6.9	45.0	12.6	7.3	6.6
Ukraine	612	30.0	20.8	29.8	7.3	30.0	10.9	1.3	28.5	31.3
United States	1138	32.4	20.3	37.0	7.9	32.4	1.2	1.2	35.0	29.7
Yemen	822	11.9	19.7	19.1	19.6	11.9	23.3	6.4	10.1	13.2
International Avg.	631	35.9	20.7	18.8	7.1	35.9	13.1	4.3	36.9	34.9
Alberta, Canada	571	44.4	19.2	28.2	2.7	44.4	4.5	1.0	44.5	44.4
British Columbia, Canada	588	38.4	22.0	25.0	3.3	38.4	8.8	2.5	39.8	37.1
Dubai, UAE	435	27.1	17.3	28.5	7.7	27.1	15.5	3.9	27.7	26.6
Massachusetts, US	248	39.1	21.0	28.5	7.8	39.1	1.8	1.8	39.2	39.0
Minnesota, US	256	45.6	20.9	27.9	5.0	45.6	0.5	0.1	41.3	49.3
Ontario, Canada	500	44.8	21.6	25.3	3.0	44.8	4.8	0.5	47.0	42.7
Quebec, Canada	564	33.1	18.2	23.2	4.9	33.1	19.3	1.3	32.3	33.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M041175 - M10\_11)  
 Label: Type of cookie bakery sell most  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	553	49.9	49.9	8.3	17.9	8.4	2.4	13.1	48.9	51.1
Armenia	587	74.4	74.4	5.9	9.0	3.2	1.7	5.7	78.5	70.7
Australia	577	81.4	81.4	0.9	5.6	7.9	1.3	2.8	83.5	78.7
Austria	695	83.4	83.4	3.0	4.5	6.7	1.0	1.3	83.5	83.4
Chinese Taipei	588	93.7	93.7	0.0	1.7	4.1	0.2	0.3	94.8	92.6
Colombia	698	35.0	35.0	9.1	19.3	12.6	4.4	19.7	34.8	35.1
Czech Republic	610	83.6	83.6	3.3	2.6	3.3	3.6	3.6	84.8	82.4
Denmark	481	83.6	83.6	2.6	4.4	3.1	0.6	5.7	87.9	79.1
El Salvador	600	40.9	40.9	8.9	21.5	12.0	3.6	13.0	40.1	41.5
England	614	86.5	86.5	1.0	4.9	4.8	1.7	1.1	86.8	86.2
Georgia	590	56.3	56.3	3.3	11.3	17.0	3.0	9.0	55.3	57.4
Germany	741	84.5	84.5	4.5	3.8	3.7	1.1	2.4	83.5	85.5
Hong Kong SAR	537	94.2	94.2	0.2	1.1	3.9	0.2	0.2	94.5	94.0
Hungary	574	72.9	72.9	5.3	8.7	6.1	1.9	5.1	71.4	74.4
Iran, Islamic Rep. of	553	58.5	58.5	10.9	5.7	10.9	3.1	11.0	62.2	54.4
Italy	637	82.5	82.5	0.8	6.5	7.0	0.4	2.8	83.4	81.6
Japan	641	94.6	94.6	0.0	1.1	1.0	1.0	2.3	96.1	93.1
Kazakhstan	571	86.4	86.4	2.6	8.1	2.9	0.0	0.1	87.5	85.0
Kuwait	537	42.7	42.7	12.4	16.4	12.7	4.9	11.0	47.5	37.2
Latvia	561	87.1	87.1	0.4	3.3	4.6	1.2	3.4	90.0	84.0
Lithuania	559	87.9	87.9	1.3	2.1	5.2	1.5	2.0	86.2	89.2
Morocco	515	36.3	36.3	11.4	23.9	10.2	6.3	11.9	32.7	39.2
Netherlands	477	89.6	89.6	0.6	1.7	6.1	0.6	1.4	90.2	89.2
New Zealand	702	82.9	82.9	1.9	6.1	6.3	0.4	2.5	84.8	81.3
Norway	585	74.0	74.0	2.9	9.9	6.0	1.1	6.0	73.0	75.2
Qatar	992	32.3	32.3	18.7	22.9	13.8	3.9	8.4	35.0	29.3
Russian Federation	632	84.6	84.6	2.5	3.5	5.7	0.3	3.5	85.3	83.9
Scotland	558	82.5	82.5	2.1	5.5	3.6	0.6	5.6	84.0	81.1
Singapore	712	92.8	92.8	1.4	2.1	3.3	0.2	0.3	93.4	92.2
Slovak Republic	711	71.9	71.9	3.0	11.4	7.1	2.3	4.3	70.9	72.9
Slovenia	623	77.3	77.3	4.3	4.7	7.7	1.6	4.4	78.1	76.5
Sweden	674	86.4	86.4	2.0	3.7	2.3	1.5	4.1	88.0	84.8
Tunisia	591	29.0	29.0	12.0	22.2	7.9	9.7	19.2	32.2	26.0
Ukraine	612	72.2	72.2	5.9	7.5	9.4	2.7	2.3	76.7	68.1
United States	1138	86.3	86.3	1.3	2.4	6.8	1.5	1.7	87.2	85.5
Yemen	821	29.0	29.0	13.4	26.9	13.9	6.4	10.4	30.5	27.9
International Avg.	635	71.9	71.9	4.7	8.7	7.0	2.2	5.6	72.9	70.8
Alberta, Canada	571	84.8	84.8	1.6	3.7	5.2	3.0	1.7	84.6	85.0
British Columbia, Canada	588	85.4	85.4	0.6	2.4	6.1	2.0	3.6	83.9	86.8
Dubai, UAE	436	62.2	62.2	5.6	14.5	10.6	2.1	5.1	63.6	60.9
Massachusetts, US	248	91.9	91.9	0.0	0.3	4.2	1.0	2.5	91.3	92.6
Minnesota, US	256	92.1	92.1	0.4	0.9	5.6	0.9	0.1	92.5	91.9
Ontario, Canada	500	93.1	93.1	0.5	1.0	3.0	1.6	0.8	92.7	93.5
Quebec, Canada	564	79.4	79.4	1.5	4.8	9.0	2.8	2.4	78.3	80.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041199 - M10\_12)  
 Label: Representing data on the bar graph  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	561	34.9	34.9	16.0	10.8	7.6	16.0	14.7	34.0	36.0
Armenia	585	53.4	53.4	14.7	6.1	4.9	14.9	6.1	57.2	49.8
Australia	577	73.0	73.0	11.6	3.3	6.1	3.0	2.9	75.5	69.7
Austria	695	74.0	74.0	9.3	2.0	5.1	8.1	1.4	72.3	76.0
Chinese Taipei	588	92.4	92.4	3.1	1.3	1.4	1.5	0.3	93.1	91.7
Colombia	698	30.1	30.1	16.3	10.1	10.5	12.5	20.5	32.6	27.2
Czech Republic	610	69.4	69.4	12.4	3.3	1.5	9.4	4.0	72.2	66.6
Denmark	483	68.4	68.4	10.6	3.0	4.7	7.7	5.7	66.0	70.9
El Salvador	600	32.3	32.3	20.0	12.6	9.1	11.3	14.6	36.6	28.9
England	614	82.9	82.9	7.9	3.4	2.4	1.8	1.4	87.0	79.1
Georgia	590	43.2	43.2	16.3	8.7	6.3	15.9	9.5	42.7	43.8
Germany	741	76.4	76.4	7.6	2.3	2.9	8.1	2.7	77.4	75.4
Hong Kong SAR	537	95.5	95.5	2.3	0.2	0.9	0.9	0.2	96.1	95.0
Hungary	574	71.7	71.7	6.8	3.0	2.1	10.6	5.8	71.1	72.2
Iran, Islamic Rep. of	553	39.3	39.3	15.2	7.8	11.5	14.7	11.6	39.3	39.3
Italy	638	78.7	78.7	8.0	2.4	2.6	5.4	2.8	77.7	79.7
Japan	641	88.6	88.6	5.3	1.1	1.3	0.9	2.8	90.8	86.4
Kazakhstan	571	83.9	83.9	9.1	2.4	3.9	0.6	0.1	86.6	80.5
Kuwait	536	30.1	30.1	19.0	7.4	7.6	24.7	11.2	33.6	26.3
Latvia	561	82.9	82.9	5.1	3.2	2.0	3.0	3.8	84.6	81.0
Lithuania	559	83.7	83.7	7.2	2.0	1.7	3.0	2.4	84.0	83.4
Morocco	518	26.5	26.5	13.1	11.6	4.1	30.3	14.4	22.4	30.3
Netherlands	477	84.8	84.8	7.1	1.7	2.3	2.8	1.4	88.9	81.4
New Zealand	702	75.8	75.8	7.3	3.6	4.7	6.2	2.5	77.3	74.6
Norway	585	66.8	66.8	10.6	5.5	3.9	6.8	6.3	63.3	70.9
Qatar	992	21.6	21.6	24.0	10.1	10.7	24.6	9.1	22.3	20.8
Russian Federation	632	78.9	78.9	9.0	0.9	2.9	4.7	3.6	82.6	74.9
Scotland	558	75.4	75.4	6.7	4.2	2.9	5.0	5.8	76.2	74.7
Singapore	712	93.3	93.3	3.4	1.0	1.6	0.3	0.3	95.6	91.4
Slovak Republic	711	63.0	63.0	11.9	2.7	6.4	11.3	4.6	62.6	63.4
Slovenia	623	73.1	73.1	9.7	3.6	4.7	3.9	4.9	72.8	73.3
Sweden	674	77.6	77.6	6.3	2.0	1.5	8.3	4.4	78.5	76.7
Tunisia	591	17.2	17.2	11.5	10.8	6.9	34.0	19.7	18.4	16.0
Ukraine	612	66.6	66.6	13.5	5.7	5.4	5.7	3.0	70.3	63.2
United States	1138	88.1	88.1	4.0	2.1	1.8	2.1	1.8	89.2	87.1
Yemen	822	15.0	15.0	15.5	12.0	10.2	35.5	11.8	15.7	14.5
International Avg.	635	64.1	64.1	10.5	4.8	4.6	9.9	6.1	65.2	63.1
Alberta, Canada	571	83.7	83.7	4.8	2.9	2.4	3.9	2.4	87.1	80.6
British Columbia, Canada	588	80.2	80.2	7.6	2.8	2.4	2.9	4.1	79.1	81.3
Dubai, UAE	435	43.2	43.2	29.3	6.5	7.4	7.7	5.8	46.5	40.3
Massachusetts, US	248	91.7	91.7	3.1	0.3	0.6	1.8	2.5	91.8	91.6
Minnesota, US	256	93.9	93.9	3.9	0.3	0.1	1.8	0.1	96.1	92.0
Ontario, Canada	500	83.6	83.6	6.6	2.9	3.5	2.3	1.1	84.0	83.2
Quebec, Canada	564	80.0	80.0	6.4	1.5	3.4	5.6	3.1	80.8	79.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031210 - M11\_01)  
 Label: Select a fraction larger than 1/2  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	522	24.2	24.2	12.3	11.0	45.7	5.3	1.5	22.1	26.8
Armenia	548	62.2	62.2	8.0	3.0	20.7	6.1	0.1	63.8	60.5
Australia	584	52.6	52.6	7.5	4.9	33.7	1.1	0.1	56.0	48.6
Austria	694	40.5	40.5	8.3	4.5	36.1	10.6	0.0	37.2	44.0
Chinese Taipei	590	61.4	61.4	9.4	3.1	25.3	0.9	0.0	61.3	61.4
Colombia	680	24.8	24.8	2.6	5.2	62.4	3.6	1.4	18.0	30.6
Czech Republic	602	28.7	28.7	7.4	3.5	36.3	24.1	0.0	30.7	26.9
Denmark	481	39.2	39.2	8.7	6.6	36.9	8.7	0.0	36.6	42.0
El Salvador	586	20.9	20.9	5.2	4.9	64.1	3.3	1.5	16.8	24.9
England	602	59.5	59.5	7.8	9.4	20.9	2.4	0.0	55.4	63.6
Georgia	590	49.5	49.5	10.5	5.6	27.2	6.5	0.7	48.3	50.5
Germany	727	31.1	31.1	6.8	8.9	39.0	14.2	0.0	31.2	30.9
Hong Kong SAR	533	72.2	72.2	12.7	3.2	11.0	0.9	0.0	70.7	73.8
Hungary	573	42.5	42.5	8.9	6.4	33.5	8.5	0.3	40.3	44.5
Iran, Islamic Rep. of	555	29.7	29.7	8.6	4.5	50.8	6.2	0.2	26.1	33.4
Italy	632	44.5	44.5	5.6	3.9	40.4	5.4	0.2	41.1	47.7
Japan	648	55.4	55.4	6.7	4.3	25.5	7.9	0.1	54.9	55.9
Kazakhstan	573	68.5	68.5	12.0	3.7	14.5	1.2	0.0	69.5	67.7
Kuwait	536	25.0	25.0	12.1	9.3	45.6	5.4	2.5	23.4	26.9
Latvia	568	54.1	54.1	7.7	5.0	29.6	3.5	0.1	47.9	59.6
Lithuania	565	54.0	54.0	6.3	5.4	29.1	5.2	0.0	50.0	58.1
Morocco	521	11.8	11.8	12.3	21.9	40.8	12.4	0.8	11.3	12.2
Netherlands	471	50.2	50.2	13.4	7.1	27.3	2.0	0.0	48.3	52.1
New Zealand	703	59.3	59.3	7.2	4.7	26.7	1.6	0.5	59.0	59.6
Norway	594	46.0	46.0	14.3	5.6	31.0	2.9	0.3	42.4	50.4
Qatar	988	25.7	25.7	14.9	10.1	42.4	6.0	0.9	25.8	25.7
Russian Federation	632	64.7	64.7	6.6	4.6	20.4	3.5	0.2	65.1	64.3
Scotland	568	43.1	43.1	7.9	8.6	34.8	5.2	0.4	43.9	42.3
Singapore	728	66.2	66.2	11.3	5.5	17.0	0.1	0.0	67.5	64.9
Slovak Republic	706	36.2	36.2	6.9	4.1	46.6	5.9	0.3	35.6	36.8
Slovenia	630	38.2	38.2	9.6	3.2	42.3	6.4	0.4	34.4	41.9
Sweden	667	39.9	39.9	14.1	5.3	31.0	9.6	0.1	39.3	40.5
Tunisia	586	17.2	17.2	12.4	10.9	37.2	19.5	2.7	15.5	18.8
Ukraine	619	66.3	66.3	5.0	4.9	20.8	3.0	0.0	68.7	63.7
United States	1132	59.2	59.2	10.2	6.0	23.6	0.8	0.2	58.8	59.5
Yemen	821	22.1	22.1	12.1	17.2	39.9	6.9	1.7	23.1	21.4
International Avg.	632	44.1	44.1	9.3	6.5	33.6	6.0	0.5	42.8	45.3
Alberta, Canada	573	45.6	45.6	6.0	5.0	42.7	0.7	0.0	42.4	48.7
British Columbia, Canada	594	46.7	46.7	8.7	3.9	36.7	3.9	0.0	40.4	52.6
Dubai, UAE	454	37.0	37.0	7.3	7.1	42.3	5.2	1.1	29.1	43.9
Massachusetts, US	258	71.4	71.4	6.5	6.0	14.0	2.2	0.0	68.6	74.5
Minnesota, US	253	72.6	72.6	12.1	5.4	9.7	0.1	0.0	64.9	81.4
Ontario, Canada	487	46.2	46.2	10.8	4.6	36.3	2.1	0.0	43.1	49.2
Quebec, Canada	567	40.2	40.2	11.6	5.4	39.0	3.7	0.1	37.8	42.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031009 - M11\_02)  
 Label: Georgia needs pages to send letters  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	NOT		
								V1 %Right	2.BOY %Right	
Algeria	603	13.5	8.1	3.1	43.3	30.6	1.4	13.5	14.6	12.3
Armenia	556	57.2	5.0	1.1	24.7	11.9	0.1	57.2	61.6	52.8
Australia	584	57.0	5.3	3.2	30.2	4.2	0.1	57.0	62.9	50.0
Austria	694	38.0	6.7	13.0	30.1	12.3	0.0	38.0	36.0	40.1
Chinese Taipei	590	59.2	5.0	4.9	28.5	2.4	0.0	59.2	64.2	54.8
Colombia	680	11.1	10.7	2.8	61.6	12.4	1.5	11.1	9.3	12.6
Czech Republic	602	45.8	5.2	5.3	30.7	12.9	0.1	45.8	46.6	45.2
Denmark	495	40.2	2.6	7.6	43.1	6.6	0.0	40.2	41.7	38.7
El Salvador	586	15.6	6.8	1.9	64.4	9.6	1.7	15.6	15.3	15.9
England	602	61.9	4.7	5.5	23.0	4.9	0.0	61.9	65.3	58.7
Georgia	590	32.9	12.6	3.4	32.5	17.9	0.7	32.9	39.0	27.5
Germany	727	41.8	5.4	17.1	30.2	5.6	0.0	41.8	43.5	39.9
Hong Kong SAR	533	27.3	11.2	32.1	27.4	1.9	0.0	27.3	27.5	27.1
Hungary	573	8.2	6.5	26.2	51.9	7.0	0.3	8.2	10.5	6.1
Iran, Islamic Rep. of	555	7.3	9.1	3.6	60.4	19.4	0.2	7.3	7.8	6.8
Italy	642	36.9	9.8	4.9	36.8	10.9	0.7	36.9	37.1	36.6
Japan	648	65.8	5.0	1.9	25.6	1.6	0.1	65.8	64.8	66.9
Kazakhstan	573	49.7	18.9	6.3	22.6	2.5	0.0	49.7	56.0	44.1
Kuwait	536	1.5	13.1	0.2	55.5	27.1	2.7	1.5	2.0	0.9
Latvia	568	51.1	13.5	2.6	28.4	4.3	0.1	51.1	57.1	45.8
Lithuania	565	44.5	11.6	12.0	26.2	5.8	0.0	44.5	47.7	41.2
Morocco	549	12.3	9.7	1.5	39.2	36.6	0.8	12.3	9.2	14.7
Netherlands	471	41.3	4.8	13.0	39.0	2.0	0.0	41.3	39.2	43.3
New Zealand	703	50.4	5.0	4.9	35.7	3.5	0.5	50.4	52.9	48.3
Norway	594	31.5	4.7	4.6	52.4	6.4	0.4	31.5	33.9	28.6
Qatar	988	1.9	5.5	1.4	62.4	27.8	0.9	1.9	2.4	1.4
Russian Federation	632	52.7	11.5	6.5	23.7	5.3	0.2	52.7	52.9	52.6
Scotland	568	53.7	2.8	3.9	36.1	3.2	0.4	53.7	60.9	46.4
Singapore	728	47.6	9.9	22.1	20.1	0.3	0.0	47.6	52.3	42.9
Slovak Republic	706	14.8	12.2	21.0	35.1	16.5	0.3	14.8	17.4	12.3
Slovenia	630	19.0	8.1	7.3	56.7	8.5	0.4	19.0	18.5	19.6
Sweden	667	65.5	4.7	3.4	21.4	4.9	0.1	65.5	66.8	64.3
Tunisia	586	5.8	8.3	6.1	53.6	23.0	3.3	5.8	5.2	6.4
Ukraine	619	31.7	15.7	7.9	35.7	9.1	0.0	31.7	29.4	34.1
United States	1132	45.8	8.1	6.8	36.5	2.6	0.2	45.8	47.0	44.5
Yemen	821	2.5	2.4	0.2	59.6	33.4	1.9	2.5	2.9	2.2
International Avg.	636	34.5	8.0	7.5	38.5	11.0	0.5	34.5	36.1	32.9
Alberta, Canada	573	46.0	5.2	5.9	40.6	2.3	0.0	46.0	50.3	41.8
British Columbia, Canada	594	47.1	4.3	6.7	37.6	4.0	0.2	47.1	49.9	44.5
Dubai, UAE	454	17.3	10.5	7.4	49.9	13.4	1.5	17.3	17.2	17.4
Massachusetts, US	258	67.5	5.9	6.5	18.5	1.5	0.0	67.5	65.7	69.7
Minnesota, US	253	60.9	5.6	5.3	25.1	3.1	0.0	60.9	58.0	64.3
Ontario, Canada	487	47.9	3.7	7.4	36.4	4.4	0.1	47.9	54.4	41.4
Quebec, Canada	567	44.0	21.6	2.4	26.5	5.4	0.1	44.0	42.6	45.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031252 - M11\_03)  
 Label: If the patter 3,6,9,12 continued  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	40.7	14.5	40.7	14.6	15.8	12.9	1.4	42.5	38.8
Armenia	554	55.8	21.0	55.8	5.2	7.1	10.8	0.1	57.8	53.7
Australia	584	75.7	13.6	75.7	5.3	3.6	1.6	0.1	82.4	67.7
Austria	694	58.7	14.0	58.7	5.7	12.9	8.6	0.0	55.1	62.6
Chinese Taipei	590	78.7	10.1	78.7	2.6	6.2	2.4	0.0	78.0	79.3
Colombia	680	27.9	16.4	27.9	17.1	30.7	5.8	2.1	22.4	32.6
Czech Republic	602	72.0	11.9	72.0	6.4	3.2	6.4	0.1	73.3	70.7
Denmark	.	.	.	.	.	.	.	.	.	.
El Salvador	586	21.2	27.5	21.2	16.5	25.8	6.8	2.3	21.2	21.2
England	602	82.3	7.3	82.3	5.8	2.2	2.3	0.1	86.3	78.4
Georgia	591	49.4	25.3	49.4	5.6	9.0	9.7	1.0	50.8	48.2
Germany	727	80.1	7.4	80.1	5.0	2.3	5.3	0.0	80.2	80.0
Hong Kong SAR	533	78.3	6.5	78.3	7.5	6.1	1.5	0.0	77.9	78.8
Hungary	573	62.5	15.0	62.5	7.6	7.9	6.7	0.3	61.0	63.9
Iran, Islamic Rep. of	555	29.7	19.8	29.7	13.6	29.4	7.3	0.2	33.9	25.3
Italy	637	74.4	8.8	74.4	6.4	6.2	3.4	0.8	73.0	75.6
Japan	648	76.8	8.4	76.8	6.4	5.0	3.3	0.1	74.2	79.5
Kazakhstan	573	72.2	12.8	72.2	7.2	7.3	0.6	0.0	77.3	67.7
Kuwait	536	28.9	24.7	28.9	11.2	24.7	7.6	2.8	27.8	30.2
Latvia	568	67.1	19.3	67.1	5.2	5.0	3.3	0.1	63.6	70.3
Lithuania	565	73.0	14.8	73.0	5.5	1.5	4.9	0.3	72.9	73.2
Morocco	531	25.9	12.7	25.9	21.3	24.9	14.0	1.3	25.0	26.5
Netherlands	471	62.7	13.8	62.7	10.4	9.5	3.6	0.0	59.2	66.1
New Zealand	703	71.4	16.0	71.4	5.7	4.2	2.1	0.5	74.4	69.0
Norway	594	64.9	19.0	64.9	7.9	4.5	3.3	0.5	67.5	61.7
Qatar	988	25.7	23.5	25.7	17.4	24.2	8.0	1.3	24.2	27.2
Russian Federation	632	61.7	22.4	61.7	6.4	3.9	5.3	0.2	61.3	62.1
Scotland	568	80.1	9.9	80.1	5.1	3.2	1.3	0.4	78.1	82.1
Singapore	728	90.5	2.9	90.5	3.4	3.1	0.1	0.0	93.1	88.0
Slovak Republic	706	67.9	17.4	67.9	6.2	4.7	3.5	0.3	66.1	69.7
Slovenia	630	75.6	11.4	75.6	3.5	6.2	2.8	0.5	75.6	75.6
Sweden	667	61.4	21.4	61.4	7.3	4.9	4.4	0.5	63.3	59.8
Tunisia	586	28.8	11.8	28.8	17.1	19.9	18.4	3.9	24.0	33.1
Ukraine	619	35.4	37.0	35.4	6.6	12.4	8.3	0.3	30.7	40.5
United States	1132	82.3	10.4	82.3	4.0	2.5	0.5	0.3	83.5	81.2
Yemen	822	20.0	11.6	20.0	23.7	33.5	9.0	2.2	19.0	20.8
International Avg.	638	58.9	15.4	58.9	8.8	10.7	5.6	0.7	58.8	58.9
Alberta, Canada	573	77.2	14.1	77.2	4.9	2.9	0.9	0.0	79.2	75.2
British Columbia, Canada	594	73.6	15.4	73.6	5.5	3.0	2.1	0.5	70.5	76.4
Dubai, UAE	454	54.8	17.1	54.8	6.7	12.9	7.1	1.5	57.2	52.6
Massachusetts, US	258	86.1	7.2	86.1	4.7	1.6	0.3	0.0	86.6	85.6
Minnesota, US	253	86.1	7.6	86.1	4.8	1.6	0.0	0.0	85.3	87.0
Ontario, Canada	487	76.3	13.7	76.3	5.0	3.3	1.5	0.1	75.1	77.5
Quebec, Canada	567	68.7	18.4	68.7	4.7	1.9	6.2	0.1	70.1	67.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031316 - M11\_04)  
 Label: 4 times box equals 28  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	63.9	26.9	7.6	1.6	63.9	65.8	61.8
Armenia	556	87.4	8.9	3.6	0.1	87.4	84.4	90.5
Australia	584	75.0	21.9	3.0	0.1	75.0	76.6	73.1
Austria	694	97.7	1.5	0.8	0.0	97.7	97.9	97.6
Chinese Taipei	590	98.2	1.6	0.2	0.0	98.2	99.4	97.1
Colombia	680	69.1	24.4	3.8	2.6	69.1	68.3	69.8
Czech Republic	602	91.8	4.6	3.5	0.1	91.8	90.7	92.8
Denmark	495	81.8	14.5	2.7	1.0	81.8	81.0	82.7
El Salvador	586	50.9	37.3	9.4	2.4	50.9	53.0	48.9
England	602	81.7	15.2	3.0	0.1	81.7	83.4	80.0
Georgia	591	87.4	6.6	5.0	1.1	87.4	89.4	85.6
Germany	727	93.0	6.3	0.6	0.1	93.0	94.4	91.4
Hong Kong SAR	533	96.4	2.9	0.8	0.0	96.4	96.4	96.4
Hungary	573	90.1	7.4	1.8	0.7	90.1	94.9	85.6
Iran, Islamic Rep. of	555	83.9	12.6	3.1	0.4	83.9	85.2	82.4
Italy	642	89.4	7.2	2.4	1.0	89.4	88.0	90.8
Japan	648	99.0	0.9	0.0	0.1	99.0	99.1	98.9
Kazakhstan	573	94.7	4.9	0.4	0.0	94.7	95.0	94.5
Kuwait	536	53.9	33.7	9.5	2.8	53.9	59.9	47.2
Latvia	568	91.8	7.4	0.7	0.1	91.8	91.9	91.7
Lithuania	565	90.7	6.9	2.2	0.3	90.7	87.6	93.7
Morocco	550	64.7	20.5	12.9	1.9	64.7	65.1	64.2
Netherlands	471	90.1	9.4	0.5	0.0	90.1	90.9	89.3
New Zealand	703	71.7	25.4	2.3	0.5	71.7	72.2	71.3
Norway	594	72.6	24.0	2.9	0.5	72.6	73.5	71.5
Qatar	988	53.3	36.0	9.4	1.3	53.3	54.4	52.1
Russian Federation	632	96.0	2.6	1.0	0.3	96.0	95.3	96.9
Scotland	568	84.5	13.4	1.8	0.4	84.5	82.7	86.3
Singapore	728	93.9	6.1	0.0	0.0	93.9	97.0	90.7
Slovak Republic	706	91.5	6.8	1.1	0.5	91.5	92.1	90.9
Slovenia	630	92.4	5.8	1.3	0.5	92.4	93.3	91.7
Sweden	667	77.0	18.3	4.1	0.6	77.0	77.8	76.3
Tunisia	586	66.1	21.7	8.2	3.9	66.1	68.1	64.4
Ukraine	619	86.3	12.5	0.8	0.3	86.3	89.8	82.5
United States	1132	86.6	12.1	1.0	0.3	86.6	87.6	85.6
Yemen	822	36.8	48.3	12.7	2.2	36.8	41.4	33.4
International Avg.	636	81.4	14.4	3.4	0.8	81.4	82.3	80.5
Alberta, Canada	573	81.6	16.4	2.0	0.0	81.6	81.4	81.8
British Columbia, Canada	594	80.2	16.5	2.7	0.6	80.2	78.6	81.7
Dubai, UAE	454	78.2	16.1	4.2	1.5	78.2	81.1	75.7
Massachusetts, US	258	94.9	4.7	0.4	0.0	94.9	94.7	95.1
Minnesota, US	253	83.3	15.2	1.4	0.0	83.3	85.4	81.1
Ontario, Canada	487	77.6	20.2	2.1	0.1	77.6	77.5	77.8
Quebec, Canada	567	82.7	13.5	3.8	0.1	82.7	82.8	82.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M031317 - M11\_05)  
 Label: 3 + 8 = box plus 6  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	29.0	19.8	36.4	6.8	29.0	6.3	1.7	25.8	32.4
Armenia	552	70.6	10.4	9.7	0.3	70.6	8.7	0.3	75.3	65.7
Australia	584	24.7	20.9	50.9	1.1	24.7	2.0	0.4	25.7	23.5
Austria	694	16.4	39.6	41.1	0.5	16.4	2.3	0.0	13.2	19.8
Chinese Taipei	590	58.7	5.2	35.3	0.7	58.7	0.2	0.0	61.0	56.6
Colombia	680	7.6	36.4	45.6	3.4	7.6	3.8	3.3	3.9	10.8
Czech Republic	602	15.2	31.0	48.5	1.3	15.2	4.0	0.1	15.2	15.2
Denmark	494	20.2	28.5	47.0	0.9	20.2	2.4	1.0	22.1	18.3
El Salvador	586	10.9	36.8	34.5	9.1	10.9	5.7	3.0	9.8	11.8
England	602	30.4	18.2	47.0	2.3	30.4	2.0	0.1	24.1	36.5
Georgia	591	54.4	20.1	16.8	2.5	54.4	5.1	1.1	57.1	52.0
Germany	727	18.8	21.4	57.2	0.5	18.8	2.0	0.1	18.6	19.0
Hong Kong SAR	533	90.2	0.8	6.9	1.1	90.2	1.0	0.0	89.5	91.0
Hungary	573	52.9	21.4	18.7	2.9	52.9	3.3	0.9	53.4	52.4
Iran, Islamic Rep. of	555	31.6	20.6	36.0	5.4	31.6	6.0	0.4	27.3	36.1
Italy	639	16.8	22.6	57.0	0.4	16.8	2.0	1.2	17.1	16.5
Japan	648	56.9	2.8	38.8	0.6	56.9	0.9	0.1	54.2	59.7
Kazakhstan	573	81.2	8.2	9.9	0.2	81.2	0.5	0.0	87.0	76.1
Kuwait	536	21.5	19.2	44.7	7.0	21.5	4.5	3.2	23.1	19.7
Latvia	568	71.4	10.8	13.4	2.3	71.4	2.0	0.1	72.7	70.3
Lithuania	565	64.7	14.4	15.7	2.1	64.7	2.9	0.3	65.6	63.7
Morocco	537	18.0	30.5	33.1	8.7	18.0	7.0	2.7	12.0	22.6
Netherlands	471	32.8	20.4	45.1	1.2	32.8	0.3	0.2	31.7	33.9
New Zealand	703	18.8	18.3	58.2	2.3	18.8	1.9	0.5	17.4	20.0
Norway	594	29.6	27.4	35.4	4.3	29.6	2.9	0.5	29.6	29.5
Qatar	987	19.5	22.0	44.5	6.8	19.5	5.6	1.6	18.0	21.1
Russian Federation	632	75.8	7.2	13.5	2.1	75.8	1.1	0.3	75.8	75.7
Scotland	568	11.2	32.7	52.4	1.3	11.2	2.1	0.4	9.1	13.2
Singapore	728	83.3	4.5	11.5	0.5	83.3	0.3	0.0	85.1	81.5
Slovak Republic	706	38.4	24.9	31.4	1.3	38.4	3.2	0.7	38.5	38.2
Slovenia	630	36.1	21.9	37.8	1.7	36.1	2.0	0.5	32.8	39.2
Sweden	667	37.4	26.1	30.2	2.8	37.4	2.8	0.7	35.6	39.0
Tunisia	586	23.3	20.9	25.8	12.7	23.3	12.7	4.6	23.6	23.0
Ukraine	619	49.5	22.0	23.1	1.7	49.5	3.3	0.3	48.8	50.3
United States	1132	43.3	11.0	42.5	1.7	43.3	1.2	0.3	41.8	44.9
Yemen	822	10.9	28.0	34.1	16.6	10.9	7.8	2.6	10.2	11.5
International Avg.	635	38.1	20.2	34.2	3.3	38.1	3.4	0.9	37.6	38.6
Alberta, Canada	573	8.7	22.0	63.8	2.3	8.7	3.2	0.0	8.0	9.4
British Columbia, Canada	594	20.1	16.9	57.0	2.0	20.1	3.4	0.6	17.1	22.8
Dubai, UAE	454	21.0	20.5	49.4	2.8	21.0	4.8	1.5	19.0	22.6
Massachusetts, US	258	52.7	8.0	37.8	0.8	52.7	0.7	0.0	51.5	54.0
Minnesota, US	253	57.1	9.3	31.3	1.1	57.1	1.2	0.0	46.0	69.8
Ontario, Canada	487	21.5	18.0	53.6	2.9	21.5	3.9	0.1	18.8	24.1
Quebec, Canada	567	27.7	23.6	43.8	1.9	27.7	2.4	0.5	31.9	23.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031079B - M11\_06B)  
 Label: Pattern of circles/figure 5  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
							V1	%Right	V1	%Right
Algeria	604	33.4	13.7	37.4	12.8	2.8	33.4	35.8	30.7	
Armenia	555	65.3	2.4	17.4	14.6	0.3	65.3	63.9	66.8	
Australia	584	80.5	3.0	12.6	3.5	0.4	80.5	80.5	80.4	
Austria	694	80.0	1.2	14.5	4.2	0.0	80.0	78.9	81.3	
Chinese Taipei	590	88.1	2.9	8.6	0.4	0.0	88.1	89.6	86.8	
Colombia	680	36.9	3.4	47.4	8.5	3.8	36.9	32.1	41.1	
Czech Republic	602	74.3	0.7	18.8	6.1	0.1	74.3	76.2	72.6	
Denmark	495	82.1	0.8	12.5	3.7	1.0	82.1	82.8	81.4	
El Salvador	586	27.7	4.0	55.3	9.7	3.4	27.7	25.1	30.2	
England	602	79.2	3.0	15.4	2.2	0.1	79.2	79.2	79.2	
Georgia	591	37.9	2.4	32.2	26.3	1.2	37.9	40.6	35.6	
Germany	727	86.0	2.5	9.5	1.9	0.1	86.0	87.0	85.0	
Hong Kong SAR	533	93.4	1.8	4.8	0.1	0.0	93.4	95.4	91.3	
Hungary	573	76.1	0.5	21.6	0.9	0.9	76.1	76.1	76.2	
Iran, Islamic Rep. of	554	39.3	4.6	41.4	13.7	1.1	39.3	40.1	38.5	
Italy	642	77.1	0.2	18.9	2.6	1.2	77.1	73.0	80.9	
Japan	648	93.1	0.7	5.7	0.3	0.1	93.1	93.0	93.3	
Kazakhstan	573	70.2	8.2	20.8	0.8	0.0	70.2	74.8	66.1	
Kuwait	536	19.5	8.6	49.9	18.7	3.3	19.5	21.3	17.6	
Latvia	568	79.5	0.1	18.7	1.7	0.1	79.5	79.1	79.7	
Lithuania	565	81.7	3.0	11.9	3.0	0.3	81.7	82.3	81.2	
Morocco	550	28.2	6.1	39.1	23.1	3.5	28.2	22.8	32.0	
Netherlands	471	85.2	1.3	12.4	0.8	0.2	85.2	84.8	85.5	
New Zealand	703	73.6	2.1	21.9	1.8	0.6	73.6	75.8	71.8	
Norway	594	66.8	2.6	26.1	4.0	0.5	66.8	64.8	69.2	
Qatar	988	16.3	10.4	53.2	18.3	1.8	16.3	17.0	15.5	
Russian Federation	632	76.6	6.0	14.4	2.8	0.3	76.6	73.9	79.4	
Scotland	568	74.6	3.7	18.4	2.9	0.5	74.6	73.9	75.2	
Singapore	728	87.1	4.0	8.8	0.1	0.0	87.1	89.8	84.5	
Slovak Republic	706	71.5	1.3	20.8	5.7	0.7	71.5	71.1	71.9	
Slovenia	630	72.5	1.2	23.7	2.2	0.5	72.5	72.8	72.1	
Sweden	667	80.1	0.9	14.3	3.8	0.8	80.1	81.2	79.2	
Tunisia	586	31.5	3.4	46.2	13.3	5.5	31.5	34.9	28.5	
Ukraine	619	57.5	6.4	30.0	5.8	0.3	57.5	58.7	56.2	
United States	1132	77.0	7.8	13.3	1.6	0.3	77.0	78.9	75.2	
Yemen	822	6.8	6.4	60.8	22.9	3.1	6.8	9.3	5.0	
International Avg.	636	64.1	3.6	24.4	6.8	1.1	64.1	64.3	63.8	
Alberta, Canada	573	82.6	2.6	13.3	1.5	0.0	82.6	79.8	85.2	
British Columbia, Canada	594	79.7	2.0	14.2	3.5	0.6	79.7	78.7	80.6	
Dubai, UAE	454	55.2	5.6	31.8	5.8	1.6	55.2	56.3	54.1	
Massachusetts, US	258	85.3	5.3	7.7	1.7	0.0	85.3	85.2	85.4	
Minnesota, US	253	79.4	7.0	12.1	1.5	0.0	79.4	77.1	82.0	
Ontario, Canada	487	85.4	2.5	11.5	0.5	0.1	85.4	83.9	86.9	
Quebec, Canada	567	82.3	2.3	12.4	2.5	0.5	82.3	84.6	80.0	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031079C - M11\_06C)  
 Label: Pattern of circles/figure 10  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	16.1	57.1	22.1	4.7	16.1	20.2	11.7
Armenia	556	42.1	39.5	18.1	0.3	42.1	42.7	41.4
Australia	584	38.4	56.6	4.4	0.6	38.4	43.5	32.3
Austria	694	43.3	49.3	7.4	0.1	43.3	45.6	40.8
Chinese Taipei	590	57.2	41.5	1.3	0.0	57.2	61.1	53.8
Colombia	680	18.7	64.4	12.1	4.9	18.7	16.5	20.7
Czech Republic	602	35.9	52.8	10.9	0.4	35.9	40.8	31.3
Denmark	495	43.6	49.9	5.6	1.0	43.6	48.2	38.8
El Salvador	586	10.4	69.8	14.7	5.1	10.4	8.9	11.9
England	602	42.2	53.3	4.3	0.2	42.2	46.0	38.4
Georgia	591	19.7	47.9	29.7	2.7	19.7	19.6	19.9
Germany	727	32.1	64.1	3.4	0.4	32.1	35.6	28.4
Hong Kong SAR	533	62.8	37.1	0.1	0.0	62.8	63.1	62.4
Hungary	573	40.3	55.0	3.8	0.9	40.3	41.5	39.2
Iran, Islamic Rep. of	554	19.1	62.7	15.5	2.7	19.1	19.7	18.5
Italy	642	49.6	43.9	5.4	1.2	49.6	47.5	51.5
Japan	648	59.7	39.2	1.1	0.1	59.7	62.7	56.5
Kazakhstan	573	57.1	39.1	3.8	0.0	57.1	65.4	49.7
Kuwait	536	7.8	57.2	30.7	4.3	7.8	7.8	7.9
Latvia	568	44.2	51.5	4.2	0.1	44.2	47.6	41.1
Lithuania	565	41.5	52.3	5.0	1.2	41.5	44.2	38.8
Morocco	550	12.1	51.4	31.3	5.2	12.1	10.9	13.2
Netherlands	471	28.4	70.1	1.3	0.2	28.4	35.5	21.6
New Zealand	703	35.2	60.4	3.8	0.6	35.2	40.9	30.5
Norway	594	31.1	61.7	6.5	0.6	31.1	34.7	26.8
Qatar	988	5.5	66.4	25.8	2.3	5.5	6.0	4.9
Russian Federation	632	48.5	44.5	6.5	0.5	48.5	48.3	48.7
Scotland	568	39.1	54.5	5.7	0.7	39.1	43.9	34.2
Singapore	728	64.6	34.9	0.4	0.0	64.6	70.1	59.2
Slovak Republic	706	40.1	46.5	12.3	1.1	40.1	41.8	38.4
Slovenia	630	39.1	56.9	3.4	0.6	39.1	41.7	36.6
Sweden	667	41.5	51.0	6.7	0.8	41.5	46.8	37.0
Tunisia	586	12.6	59.6	21.2	6.6	12.6	13.2	12.0
Ukraine	619	25.4	61.6	12.5	0.4	25.4	24.1	26.8
United States	1132	44.3	53.1	2.3	0.3	44.3	49.3	39.3
Yemen	822	2.4	65.0	26.9	5.6	2.4	3.0	2.0
International Avg.	636	34.8	53.4	10.3	1.6	34.8	37.2	32.4
Alberta, Canada	573	43.1	55.0	1.9	0.0	43.1	46.2	40.1
British Columbia, Canada	594	44.6	49.1	5.7	0.6	44.6	46.2	43.1
Dubai, UAE	454	35.4	51.5	10.6	2.5	35.4	37.0	33.9
Massachusetts, US	258	49.9	47.8	2.4	0.0	49.9	55.2	43.7
Minnesota, US	253	47.4	50.3	2.3	0.0	47.4	52.0	42.2
Ontario, Canada	487	48.7	49.7	1.4	0.2	48.7	51.3	46.2
Quebec, Canada	567	45.1	49.7	4.6	0.5	45.1	50.0	40.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031004 - M11\_07)  
 Label: Length of string pulled straight  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	571	16.1	12.8	16.1	29.6	30.8	5.5	5.3	14.5	18.0
Armenia	552	44.5	5.8	44.5	10.8	32.3	6.2	0.3	45.3	43.7
Australia	584	26.7	6.0	26.7	28.3	36.8	1.4	0.8	28.0	25.3
Austria	694	37.5	4.1	37.5	26.1	30.9	1.3	0.1	33.5	41.6
Chinese Taipei	590	39.9	12.6	39.9	23.4	23.6	0.4	0.0	40.9	39.0
Colombia	680	5.8	6.9	5.8	27.4	51.6	2.7	5.7	7.5	4.3
Czech Republic	602	29.5	7.8	29.5	20.8	38.7	2.9	0.4	28.1	30.7
Denmark	496	37.9	6.4	37.9	17.7	33.1	3.7	1.2	34.5	41.4
El Salvador	586	11.0	11.1	11.0	21.8	45.9	4.7	5.6	9.4	12.5
England	602	26.4	6.8	26.4	26.6	38.7	1.3	0.2	21.6	31.0
Georgia	589	25.7	7.2	25.7	18.8	41.1	4.5	2.7	28.9	22.9
Germany	727	45.3	6.5	45.3	26.0	21.5	0.4	0.4	43.2	47.6
Hong Kong SAR	533	37.8	8.3	37.8	31.6	21.7	0.5	0.0	34.1	41.7
Hungary	573	28.3	3.9	28.3	21.7	43.6	1.5	1.0	27.0	29.6
Iran, Islamic Rep. of	553	15.3	8.7	15.3	25.7	44.7	2.8	2.8	12.7	18.0
Italy	641	26.9	4.4	26.9	21.7	43.5	2.2	1.4	22.5	31.0
Japan	648	50.2	3.7	50.2	25.6	18.9	1.6	0.1	54.2	45.9
Kazakhstan	573	50.7	3.6	50.7	21.2	24.5	0.0	0.0	53.3	48.3
Kuwait	536	10.7	12.8	10.7	33.2	34.0	4.6	4.7	11.0	10.3
Latvia	568	46.8	5.9	46.8	20.2	26.0	1.0	0.1	44.8	48.6
Lithuania	565	43.8	3.0	43.8	27.2	24.5	0.2	1.2	42.1	45.6
Morocco	541	14.7	11.9	14.7	30.4	30.3	6.7	5.9	13.4	15.8
Netherlands	471	43.9	2.5	43.9	30.4	22.5	0.4	0.2	43.1	44.7
New Zealand	703	21.4	8.4	21.4	28.8	39.8	0.9	0.6	19.5	23.0
Norway	594	22.1	7.8	22.1	25.7	42.5	1.0	0.9	18.6	26.4
Qatar	988	11.1	21.8	11.1	31.9	28.6	3.8	2.8	9.6	12.6
Russian Federation	632	55.5	1.7	55.5	18.9	22.4	0.3	1.1	50.5	61.1
Scotland	568	15.4	7.8	15.4	30.4	44.5	1.2	0.7	14.8	16.0
Singapore	728	41.6	10.5	41.6	23.6	24.3	0.0	0.0	42.6	40.6
Slovak Republic	706	35.4	4.5	35.4	24.5	31.4	3.1	1.1	32.5	38.4
Slovenia	630	39.7	4.9	39.7	29.7	24.2	0.6	0.9	40.3	39.2
Sweden	667	43.1	5.0	43.1	25.4	24.8	0.8	0.8	40.6	45.2
Tunisia	586	16.5	8.8	16.5	25.1	31.0	11.2	7.3	15.9	17.0
Ukraine	619	33.3	6.1	33.3	27.3	31.6	0.7	0.9	28.5	38.7
United States	1132	20.3	11.0	20.3	33.4	33.5	1.4	0.5	16.7	23.8
Yemen	822	12.0	13.3	12.0	30.9	32.4	5.8	5.6	11.4	12.5
International Avg.	635	30.1	7.6	30.1	25.6	32.5	2.4	1.8	28.7	31.4
Alberta, Canada	573	17.9	6.9	17.9	29.5	44.1	1.6	0.0	17.4	18.4
British Columbia, Canada	594	20.2	8.4	20.2	28.4	39.9	2.2	0.8	18.4	21.9
Dubai, UAE	454	14.5	12.8	14.5	33.6	34.5	2.2	2.5	15.3	13.7
Massachusetts, US	258	31.9	10.6	31.9	23.3	32.3	1.6	0.4	30.3	33.6
Minnesota, US	253	31.6	6.3	31.6	30.2	32.0	0.0	0.0	25.7	38.3
Ontario, Canada	487	20.3	11.5	20.3	28.9	38.3	0.4	0.7	20.2	20.3
Quebec, Canada	567	24.8	8.0	24.8	24.4	39.5	2.9	0.5	24.4	25.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031043 - M11\_08)  
 Label: A train from Redville to Bedford  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	578	25.3	11.5	10.9	25.3	41.8	4.2	6.3	22.1	28.8
Armenia	554	48.6	10.2	8.3	48.6	25.6	6.9	0.3	47.3	49.9
Australia	584	52.7	6.7	6.6	52.7	31.3	1.6	1.0	44.6	62.4
Austria	694	51.9	6.2	5.6	51.9	34.0	2.3	0.1	40.4	64.0
Chinese Taipei	590	80.0	1.4	5.1	80.0	13.4	0.2	0.0	76.4	83.1
Colombia	680	19.0	14.7	8.5	19.0	46.4	5.6	5.9	14.2	23.2
Czech Republic	602	58.3	5.9	6.0	58.3	27.3	1.9	0.6	56.5	60.0
Denmark	496	57.3	2.9	6.9	57.3	26.6	5.1	1.2	53.0	61.8
El Salvador	586	18.1	17.6	9.3	18.1	45.0	4.1	5.8	15.6	20.5
England	602	62.8	5.6	5.7	62.8	23.6	2.0	0.4	61.2	64.3
Georgia	589	35.1	15.1	10.3	35.1	26.6	10.2	2.7	34.3	35.7
Germany	727	65.1	3.4	3.8	65.1	25.6	1.7	0.4	59.6	71.0
Hong Kong SAR	533	75.5	2.4	7.6	75.5	14.3	0.2	0.0	75.8	75.1
Hungary	573	56.1	9.4	7.6	56.1	23.7	2.0	1.1	50.9	60.9
Iran, Islamic Rep. of	553	26.8	15.8	5.7	26.8	44.2	3.7	3.8	21.2	32.6
Italy	640	41.5	5.0	3.9	41.5	46.4	1.9	1.4	33.5	48.9
Japan	648	66.5	5.1	7.3	66.5	19.8	1.3	0.1	59.4	73.9
Kazakhstan	573	58.6	5.7	6.5	58.6	28.8	0.3	0.0	57.5	59.7
Kuwait	536	19.8	13.3	16.9	19.8	37.7	7.4	4.9	18.0	21.9
Latvia	568	73.6	1.2	6.1	73.6	18.0	1.0	0.1	69.9	76.9
Lithuania	565	70.0	3.3	7.9	70.0	16.9	0.7	1.2	64.3	75.8
Morocco	543	21.3	13.0	9.7	21.3	44.3	5.6	6.1	13.2	27.7
Netherlands	471	71.1	4.0	6.3	71.1	16.8	1.5	0.2	64.4	77.6
New Zealand	703	51.7	6.0	8.8	51.7	30.8	2.1	0.6	48.4	54.4
Norway	594	44.8	7.4	10.1	44.8	34.0	2.5	1.3	39.7	51.0
Qatar	988	21.9	15.5	17.9	21.9	36.3	5.4	3.0	20.8	22.9
Russian Federation	632	60.3	3.3	6.2	60.3	27.4	1.6	1.2	55.0	66.2
Scotland	568	56.5	5.8	6.6	56.5	27.1	3.3	0.7	50.9	62.3
Singapore	728	74.0	3.7	7.3	74.0	14.3	0.7	0.0	74.1	73.9
Slovak Republic	706	53.6	6.7	6.7	53.6	27.9	3.5	1.5	52.4	54.8
Slovenia	630	44.2	9.4	6.3	44.2	37.4	1.5	1.2	37.8	50.2
Sweden	667	60.0	4.1	8.7	60.0	23.6	2.5	1.0	59.3	60.5
Tunisia	586	26.2	9.7	14.6	26.2	30.8	10.0	8.7	22.0	30.0
Ukraine	619	46.0	6.9	10.0	46.0	33.9	2.2	0.9	38.7	54.0
United States	1132	58.2	4.4	5.6	58.2	28.8	2.5	0.5	55.0	61.3
Yemen	822	23.6	14.6	17.9	23.6	30.9	6.0	7.0	20.8	25.7
International Avg.	635	49.3	7.7	8.3	49.3	29.5	3.2	2.0	45.2	53.4
Alberta, Canada	573	47.2	6.3	5.8	47.2	38.4	2.3	0.0	38.7	55.4
British Columbia, Canada	594	55.4	4.7	4.3	55.4	32.0	2.8	0.9	53.8	56.9
Dubai, UAE	454	31.2	10.2	7.8	31.2	44.6	3.6	2.5	31.0	31.4
Massachusetts, US	258	70.7	2.9	4.9	70.7	18.1	3.0	0.4	66.6	75.4
Minnesota, US	253	71.4	3.4	4.5	71.4	19.8	0.9	0.0	63.1	80.8
Ontario, Canada	487	54.5	4.0	5.9	54.5	33.3	1.6	0.7	45.1	63.8
Quebec, Canada	567	42.5	10.4	6.4	42.5	36.2	3.4	1.0	35.0	50.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031325 - M11\_09)  
 Label: Draw angle between 90 and 180 degree  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	NOT		
								V1 %Right	2.BOY %Right	
Algeria	600	15.6	2.7	0.7	35.8	38.1	7.0	15.6	14.3	17.1
Armenia	555	67.0	4.1	1.9	9.8	16.8	0.3	67.0	73.0	60.8
Australia	584	34.5	19.2	9.8	21.5	13.7	1.3	34.5	31.9	37.6
Austria	694	11.6	8.4	3.8	28.0	48.0	0.2	11.6	11.4	11.8
Chinese Taipei	590	68.3	8.9	0.5	16.0	6.3	0.0	68.3	71.3	65.7
Colombia	680	11.7	5.3	1.9	39.2	35.1	6.8	11.7	9.5	13.6
Czech Republic	602	5.1	5.1	4.2	28.3	56.7	0.6	5.1	4.1	6.0
Denmark	495	35.4	6.4	3.0	27.9	26.0	1.2	35.4	31.6	39.3
El Salvador	586	12.8	11.5	0.5	34.5	34.5	6.2	12.8	13.4	12.2
England	602	51.8	14.1	2.4	20.2	11.1	0.4	51.8	51.9	51.7
Georgia	591	21.5	2.7	3.8	15.8	52.9	3.2	21.5	19.1	23.5
Germany	727	12.1	9.9	5.0	32.0	40.5	0.5	12.1	9.5	14.8
Hong Kong SAR	533	64.8	18.3	0.4	14.1	2.3	0.0	64.8	62.0	67.6
Hungary	573	20.5	3.2	3.1	48.9	23.0	1.3	20.5	21.5	19.6
Iran, Islamic Rep. of	554	22.3	11.4	4.6	24.6	32.6	4.4	22.3	20.4	24.3
Italy	642	55.6	10.2	0.6	17.4	14.8	1.5	55.6	52.2	58.6
Japan	648	72.4	9.7	1.6	11.9	4.2	0.2	72.4	71.0	73.9
Kazakhstan	573	61.0	9.7	0.2	22.5	6.6	0.0	61.0	62.8	59.4
Kuwait	536	3.6	9.3	1.2	36.9	43.8	5.2	3.6	5.7	1.3
Latvia	568	19.4	7.4	9.1	30.7	33.2	0.1	19.4	16.0	22.5
Lithuania	565	10.4	10.7	8.0	26.4	43.2	1.2	10.4	11.3	9.5
Morocco	550	6.9	3.1	1.2	28.7	52.6	7.5	6.9	6.7	7.0
Netherlands	471	11.5	11.4	2.5	59.1	15.2	0.2	11.5	10.1	13.0
New Zealand	703	11.6	9.4	23.8	32.8	21.6	0.8	11.6	10.8	12.2
Norway	594	8.5	5.5	5.5	52.0	27.1	1.4	8.5	6.7	10.8
Qatar	988	8.6	16.2	2.1	27.9	41.5	3.7	8.6	10.1	7.0
Russian Federation	632	46.7	14.4	3.0	16.9	17.7	1.4	46.7	49.7	43.3
Scotland	568	29.3	14.9	2.6	32.6	19.7	0.8	29.3	26.3	32.5
Singapore	728	80.0	8.9	0.4	9.3	1.4	0.0	80.0	83.4	76.5
Slovak Republic	706	15.1	3.0	8.6	24.7	47.0	1.7	15.1	16.6	13.7
Slovenia	630	21.5	19.9	4.2	28.6	24.4	1.4	21.5	21.3	21.6
Sweden	667	18.6	10.5	15.1	22.9	31.5	1.5	18.6	20.4	17.1
Tunisia	586	5.4	3.9	2.1	44.5	34.1	10.1	5.4	5.2	5.5
Ukraine	619	16.2	12.1	4.4	19.8	46.5	0.9	16.2	15.4	17.1
United States	1132	47.0	20.6	4.0	22.3	5.6	0.6	47.0	46.4	47.5
Yemen	822	5.3	5.1	1.4	25.0	55.9	7.3	5.3	4.5	5.9
International Avg.	636	28.0	9.6	4.1	27.5	28.5	2.2	28.0	27.7	28.4
Alberta, Canada	573	19.6	13.2	23.9	30.2	12.9	0.2	19.6	18.8	20.4
British Columbia, Canada	594	31.2	14.0	15.4	22.3	15.9	1.2	31.2	32.1	30.4
Dubai, UAE	454	23.0	8.8	3.6	32.9	29.1	2.5	23.0	20.3	25.4
Massachusetts, US	258	70.5	14.3	0.6	11.1	3.1	0.4	70.5	68.9	72.2
Minnesota, US	253	70.3	16.1	1.4	8.9	2.9	0.4	70.3	64.3	77.1
Ontario, Canada	487	47.4	13.6	8.2	21.9	8.2	0.7	47.4	44.6	50.2
Quebec, Canada	567	26.9	11.5	6.5	30.4	23.8	1.0	26.9	25.5	28.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M031088 - M11\_10)  
 Label: Jamie is playing a board game  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	571	36.9	10.9	20.5	36.9	13.4	9.6	8.7	34.4	39.9
Armenia	554	61.3	6.6	12.1	61.3	7.4	12.3	0.3	60.8	61.8
Australia	584	80.9	6.6	2.2	80.9	6.7	2.0	1.5	79.3	82.7
Austria	694	72.8	8.9	5.4	72.8	7.2	5.1	0.6	73.4	72.1
Chinese Taipei	590	86.2	2.6	3.1	86.2	8.2	0.0	0.0	91.0	81.9
Colombia	680	38.8	14.5	16.2	38.8	11.4	7.9	11.2	32.0	44.6
Czech Republic	602	78.3	9.3	2.4	78.3	5.6	3.5	1.0	77.0	79.4
Denmark	494	74.3	5.1	6.3	74.3	7.3	5.3	1.8	71.2	77.4
El Salvador	586	33.7	14.7	18.2	33.7	13.0	11.5	9.0	29.3	37.8
England	602	83.3	5.1	2.9	83.3	5.5	2.5	0.8	82.3	84.2
Georgia	591	42.7	10.2	12.9	42.7	15.4	13.9	4.9	41.0	44.3
Germany	727	78.3	6.9	4.0	78.3	6.3	3.6	0.9	77.9	78.6
Hong Kong SAR	533	82.9	2.5	2.7	82.9	11.7	0.2	0.0	80.9	85.0
Hungary	573	74.9	5.7	7.1	74.9	8.5	2.6	1.3	71.0	78.5
Iran, Islamic Rep. of	554	47.9	10.2	10.9	47.9	17.5	6.6	6.8	46.9	49.0
Italy	642	73.1	9.4	4.7	73.1	8.1	2.7	2.0	70.0	76.0
Japan	648	84.1	3.0	3.8	84.1	8.0	0.8	0.3	85.9	82.2
Kazakhstan	573	70.8	9.3	8.3	70.8	9.9	1.7	0.0	68.3	72.9
Kuwait	536	32.3	13.6	23.5	32.3	15.2	8.3	7.2	30.8	33.9
Latvia	568	81.1	5.4	2.3	81.1	8.1	2.2	0.9	81.0	81.2
Lithuania	565	74.7	8.8	4.1	74.7	7.8	2.9	1.6	73.9	75.6
Morocco	538	37.0	10.1	21.2	37.0	11.4	9.8	10.6	30.8	41.8
Netherlands	471	84.0	5.3	2.9	84.0	7.4	0.0	0.3	81.4	86.5
New Zealand	703	75.9	7.9	4.1	75.9	8.4	2.6	1.0	76.8	75.2
Norway	594	74.8	8.4	3.9	74.8	7.2	3.4	2.2	77.3	71.9
Qatar	988	33.0	15.9	23.3	33.0	12.8	9.2	5.7	32.6	33.4
Russian Federation	632	72.3	7.9	7.5	72.3	7.8	1.7	2.9	71.8	72.8
Scotland	568	78.1	5.6	3.7	78.1	8.6	2.9	1.1	80.6	75.6
Singapore	728	79.0	6.0	5.8	79.0	8.9	0.3	0.0	81.9	76.1
Slovak Republic	706	65.9	7.6	6.8	65.9	9.9	6.9	2.9	66.2	65.5
Slovenia	630	77.4	6.9	4.8	77.4	6.7	2.2	2.0	75.8	78.9
Sweden	667	75.8	7.3	5.4	75.8	8.0	2.0	1.5	72.7	78.4
Tunisia	586	32.3	10.4	20.3	32.3	7.1	17.6	12.3	36.0	29.0
Ukraine	619	56.8	11.4	13.2	56.8	13.6	3.5	1.4	54.2	59.7
United States	1132	77.2	6.0	6.1	77.2	8.7	1.2	0.8	77.8	76.6
Yemen	822	34.9	10.5	19.9	34.9	15.2	10.3	9.2	29.1	39.2
International Avg.	635	65.1	8.2	9.0	65.1	9.6	5.0	3.2	64.0	66.1
Alberta, Canada	573	75.7	9.2	4.6	75.7	8.9	1.3	0.2	77.7	73.8
British Columbia, Canada	594	76.7	5.7	5.3	76.7	8.1	2.5	1.7	76.8	76.5
Dubai, UAE	454	54.6	13.3	10.4	54.6	12.4	6.8	2.6	52.9	56.0
Massachusetts, US	258	82.2	6.0	2.1	82.2	7.4	1.5	0.8	83.1	81.2
Minnesota, US	253	81.0	4.0	2.9	81.0	9.1	2.2	0.8	83.0	78.8
Ontario, Canada	487	75.3	7.1	5.8	75.3	8.6	1.9	1.2	73.7	77.0
Quebec, Canada	567	74.9	6.5	5.0	74.9	8.6	3.4	1.7	74.4	75.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031093 - M11\_11)  
 Label: Which dotted line is of symmetry  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	518	34.8	4.4	27.8	10.6	34.8	9.6	12.8	35.8	33.7
Armenia	546	67.7	4.0	15.6	4.8	67.7	7.5	0.3	71.2	64.2
Australia	582	68.5	2.1	14.3	4.6	68.5	8.9	1.6	71.0	65.5
Austria	694	38.0	4.1	29.2	9.4	38.0	18.6	0.6	35.6	40.6
Chinese Taipei	590	41.5	0.6	48.4	1.0	41.5	8.5	0.0	42.5	40.6
Colombia	680	22.5	8.4	36.0	11.6	22.5	8.4	13.1	21.3	23.7
Czech Republic	602	47.7	1.7	34.9	3.0	47.7	11.5	1.2	41.1	53.8
Denmark	472	60.2	3.4	18.5	6.9	60.2	8.4	2.7	55.8	64.8
El Salvador	586	24.4	6.6	33.8	16.8	24.4	8.4	10.0	24.1	24.7
England	602	71.1	1.1	15.6	1.7	71.1	9.6	0.9	73.4	68.9
Georgia	591	43.4	6.3	22.9	10.0	43.4	12.3	5.1	39.8	46.5
Germany	727	63.8	1.6	14.3	2.4	63.8	16.8	1.2	64.7	62.8
Hong Kong SAR	533	79.4	1.9	11.0	0.6	79.4	6.8	0.2	79.5	79.3
Hungary	573	57.8	2.3	15.9	7.0	57.8	15.6	1.4	63.1	52.8
Iran, Islamic Rep. of	554	56.0	2.7	22.4	3.9	56.0	6.7	8.3	59.3	52.5
Italy	595	63.9	1.7	25.4	2.5	63.9	3.9	2.5	64.8	63.1
Japan	648	34.5	5.0	42.8	10.5	34.5	6.9	0.3	30.9	38.4
Kazakhstan	573	69.3	2.6	23.0	5.0	69.3	0.1	0.0	70.9	67.8
Kuwait	536	34.1	8.3	25.0	13.0	34.1	12.1	7.5	34.4	33.9
Latvia	568	32.3	4.1	45.9	7.8	32.3	8.2	1.7	29.0	35.3
Lithuania	565	54.0	2.6	22.0	4.1	54.0	15.6	1.6	60.1	47.9
Morocco	494	31.3	3.5	23.9	5.4	31.3	25.0	11.0	28.8	33.4
Netherlands	471	29.8	8.8	27.4	26.2	29.8	7.5	0.3	30.1	29.5
New Zealand	703	60.2	2.1	20.8	7.6	60.2	8.0	1.2	61.6	59.1
Norway	594	38.4	5.2	31.2	12.2	38.4	10.3	2.8	42.2	33.7
Qatar	988	35.3	7.7	24.8	11.0	35.3	14.8	6.4	39.2	31.3
Russian Federation	632	53.4	3.4	28.1	6.7	53.4	5.5	2.9	51.2	55.9
Scotland	568	68.9	0.5	13.4	5.1	68.9	11.0	1.1	73.0	64.8
Singapore	728	89.9	0.1	8.2	0.8	89.9	0.9	0.0	90.5	89.3
Slovak Republic	706	29.3	9.4	31.8	13.5	29.3	12.6	3.4	27.8	30.8
Slovenia	630	43.8	6.7	9.6	25.6	43.8	12.3	2.0	43.1	44.6
Sweden	667	25.3	10.4	34.9	16.2	25.3	11.4	1.8	25.3	25.4
Tunisia	586	16.4	5.7	25.7	10.3	16.4	26.0	16.0	18.5	14.6
Ukraine	619	34.0	4.8	38.7	12.0	34.0	9.1	1.4	32.8	35.2
United States	1132	83.0	0.8	11.8	1.5	83.0	1.9	1.1	85.8	80.1
Yemen	822	18.3	6.4	22.3	17.1	18.3	26.2	9.8	19.3	17.6
International Avg.	630	47.8	4.2	24.9	8.6	47.8	10.7	3.7	48.3	47.4
Alberta, Canada	573	63.9	1.6	21.9	6.6	63.9	5.5	0.5	66.9	60.9
British Columbia, Canada	594	56.8	2.7	22.6	6.4	56.8	9.8	1.7	55.3	58.2
Dubai, UAE	454	43.7	8.0	26.3	6.8	43.7	12.6	2.6	42.2	45.0
Massachusetts, US	258	83.3	0.7	10.5	1.2	83.3	2.8	1.5	83.3	83.3
Minnesota, US	253	83.7	0.5	11.1	0.9	83.7	3.0	0.8	85.9	81.3
Ontario, Canada	487	76.0	0.6	12.9	2.4	76.0	6.9	1.2	74.2	77.7
Quebec, Canada	567	52.2	2.7	23.4	6.0	52.2	13.8	1.9	57.2	47.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M031155 - M11\_12)  
 Label: Teacher's pens on the graph  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	574	25.6	13.7	32.5	13.1	25.6	4.4	10.7	27.3	23.6
Armenia	552	52.5	7.8	26.3	4.9	52.5	7.8	0.7	56.8	48.1
Australia	584	53.6	3.9	34.4	5.3	53.6	1.2	1.6	47.2	61.1
Austria	694	48.5	5.5	39.1	3.0	48.5	2.4	1.5	40.5	57.0
Chinese Taipei	590	79.8	1.6	14.2	4.1	79.8	0.0	0.4	77.7	81.7
Colombia	680	33.5	11.1	27.4	7.9	33.5	4.7	15.5	30.3	36.3
Czech Republic	602	43.6	5.3	44.1	3.3	43.6	2.4	1.2	37.8	48.9
Denmark	496	59.3	3.6	25.5	6.3	59.3	1.0	4.3	55.2	63.6
El Salvador	586	29.8	11.3	28.0	13.0	29.8	6.7	11.1	28.8	30.9
England	602	69.1	1.6	19.1	8.1	69.1	1.0	1.0	67.3	70.9
Georgia	591	35.8	8.2	32.0	8.6	35.8	7.4	8.0	35.3	36.2
Germany	727	59.2	2.8	29.8	4.4	59.2	1.8	2.0	57.9	60.7
Hong Kong SAR	533	84.0	2.1	8.4	5.1	84.0	0.1	0.2	84.9	83.1
Hungary	573	55.7	4.0	32.7	4.1	55.7	1.8	1.8	54.5	56.9
Iran, Islamic Rep. of	554	31.4	7.5	43.2	5.8	31.4	2.9	9.2	28.5	34.4
Italy	641	40.0	4.7	48.3	3.3	40.0	1.3	2.4	34.5	45.1
Japan	648	72.0	2.2	20.6	4.6	72.0	0.2	0.5	67.6	76.5
Kazakhstan	573	52.8	13.6	30.4	3.0	52.8	0.2	0.0	51.1	54.2
Kuwait	536	23.0	12.6	37.1	14.1	23.0	4.8	8.4	21.5	24.7
Latvia	568	74.4	2.4	18.5	2.9	74.4	0.2	1.7	70.0	78.4
Lithuania	565	59.5	7.6	24.8	5.1	59.5	0.7	2.3	53.9	65.1
Morocco	530	27.8	11.0	27.2	14.7	27.8	5.5	13.8	28.2	27.7
Netherlands	471	74.6	3.0	16.6	5.1	74.6	0.4	0.3	72.9	76.2
New Zealand	703	55.6	4.5	32.8	5.1	55.6	0.9	1.2	48.5	61.4
Norway	594	44.0	2.8	42.6	4.3	44.0	2.8	3.5	36.6	53.0
Qatar	988	26.1	17.8	30.8	14.8	26.1	3.3	7.3	28.0	24.1
Russian Federation	632	61.3	8.0	23.6	2.4	61.3	1.8	2.9	61.8	60.9
Scotland	568	68.1	2.0	20.0	7.7	68.1	0.9	1.3	59.9	76.5
Singapore	728	85.6	3.5	6.6	4.1	85.6	0.1	0.0	86.1	85.2
Slovak Republic	706	47.3	4.3	38.2	3.6	47.3	2.0	4.6	44.2	50.4
Slovenia	630	54.3	4.9	32.1	5.3	54.3	1.1	2.3	48.1	60.3
Sweden	667	61.5	2.8	27.1	5.1	61.5	1.2	2.4	53.8	68.1
Tunisia	586	16.2	8.2	37.0	12.9	16.2	8.5	17.2	15.5	16.7
Ukraine	619	38.5	9.1	44.7	4.7	38.5	1.3	1.6	36.6	40.6
United States	1132	71.7	2.1	16.9	7.1	71.7	1.0	1.3	68.7	74.7
Yemen	822	26.6	11.1	21.8	23.1	26.6	6.5	10.8	31.2	23.2
International Avg.	635	51.2	6.3	28.7	6.9	51.2	2.5	4.3	48.6	53.8
Alberta, Canada	573	66.4	2.5	24.8	4.5	66.4	1.1	0.7	55.3	76.9
British Columbia, Canada	594	61.8	2.6	24.9	7.2	61.8	1.4	2.0	57.2	66.1
Dubai, UAE	454	44.1	8.3	33.9	7.4	44.1	2.7	3.5	35.1	52.0
Massachusetts, US	258	80.5	0.8	12.6	3.8	80.5	0.8	1.5	74.3	87.6
Minnesota, US	253	76.4	1.3	11.3	8.1	76.4	2.1	0.8	77.8	74.8
Ontario, Canada	487	62.9	1.0	25.3	7.0	62.9	2.0	1.8	55.4	70.2
Quebec, Canada	567	58.2	5.5	28.0	3.2	58.2	2.8	2.4	52.2	64.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041298 - M12\_01)  
 Label: Which rectangle is 1/4 shaded  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	541	40.8	23.4	5.2	17.3	40.8	11.5	1.8	40.5	41.2
Armenia	541	63.2	14.0	3.4	14.7	63.2	4.5	0.2	61.4	65.0
Australia	591	85.2	6.0	1.6	4.0	85.2	2.9	0.2	89.0	81.4
Austria	698	59.7	8.6	7.0	20.2	59.7	4.4	0.1	55.5	63.6
Chinese Taipei	593	93.7	3.2	0.3	1.8	93.7	1.0	0.0	95.8	91.9
Colombia	681	38.7	20.9	4.2	27.6	38.7	5.2	3.3	36.2	40.7
Czech Republic	602	34.8	21.0	12.6	16.4	34.8	15.3	0.0	37.1	32.5
Denmark	505	79.4	6.5	2.5	9.9	79.4	1.6	0.0	82.4	76.8
El Salvador	585	30.2	21.8	9.8	27.9	30.2	7.5	2.7	26.9	33.7
England	622	83.8	4.0	4.1	6.4	83.8	1.7	0.0	83.0	84.7
Georgia	599	57.8	8.8	2.0	22.6	57.8	6.6	2.2	62.6	53.6
Germany	721	50.4	8.4	13.5	22.3	50.4	5.3	0.1	45.6	55.3
Hong Kong SAR	537	95.6	3.1	0.3	0.5	95.6	0.4	0.0	97.0	94.3
Hungary	583	74.3	6.1	2.7	10.2	74.3	6.7	0.0	75.5	73.2
Iran, Islamic Rep. of	533	55.8	10.2	9.6	13.4	55.8	9.6	1.5	60.0	51.3
Italy	629	81.0	8.8	1.1	8.3	81.0	0.6	0.1	77.5	84.1
Japan	640	93.4	2.6	0.1	1.2	93.4	2.6	0.1	93.9	92.8
Kazakhstan	571	77.1	8.4	2.9	11.5	77.1	0.2	0.0	78.7	75.8
Kuwait	535	40.8	23.5	6.2	19.9	40.8	8.7	0.9	45.2	36.2
Latvia	563	82.4	4.6	0.2	10.0	82.4	2.8	0.0	84.6	80.5
Lithuania	578	80.1	7.3	1.1	6.7	80.1	4.7	0.0	82.0	77.9
Morocco	519	20.5	21.3	19.9	18.2	20.5	17.2	2.9	18.1	22.5
Netherlands	473	91.1	2.7	2.1	3.8	91.1	0.3	0.0	92.1	90.2
New Zealand	724	79.1	6.4	2.4	9.4	79.1	2.7	0.0	79.8	78.3
Norway	597	59.1	13.8	6.1	15.6	59.1	5.4	0.0	57.8	60.5
Qatar	991	32.5	18.9	6.5	31.5	32.5	9.2	1.4	37.9	26.9
Russian Federation	643	76.7	5.8	3.4	11.8	76.7	1.8	0.5	75.1	78.3
Scotland	568	76.3	8.0	7.1	6.9	76.3	1.7	0.0	77.8	74.8
Singapore	730	95.0	3.0	0.5	1.1	95.0	0.5	0.0	96.1	93.8
Slovak Republic	706	65.3	9.3	4.9	16.0	65.3	4.6	0.0	65.9	64.7
Slovenia	630	76.6	6.6	3.9	8.0	76.6	4.4	0.4	77.3	76.0
Sweden	665	58.4	17.5	7.4	12.7	58.4	3.9	0.2	60.3	56.6
Tunisia	588	14.0	12.0	14.2	28.6	14.0	27.2	4.0	14.2	13.9
Ukraine	619	60.2	19.1	3.2	14.1	60.2	3.3	0.0	60.1	60.3
United States	1135	93.0	3.4	0.1	2.5	93.0	1.0	0.1	94.2	91.8
Yemen	819	26.5	16.9	4.8	20.0	26.5	30.2	1.7	31.3	22.7
International Avg.	635	64.5	10.7	4.9	13.1	64.5	6.0	0.7	65.2	63.8
Alberta, Canada	577	84.6	5.8	1.6	5.9	84.6	1.9	0.2	85.1	84.2
British Columbia, Canada	596	80.3	5.1	3.4	8.1	80.3	2.7	0.3	84.0	76.7
Dubai, UAE	450	64.9	10.7	1.8	14.7	64.9	7.8	0.0	65.9	64.1
Massachusetts, US	250	95.4	2.6	0.0	1.2	95.4	0.8	0.0	95.1	95.6
Minnesota, US	261	95.0	3.1	0.0	1.1	95.0	0.7	0.0	95.6	94.4
Ontario, Canada	492	79.6	8.9	4.8	6.5	79.6	0.2	0.0	78.2	81.0
Quebec, Canada	569	86.7	3.8	1.0	4.6	86.7	3.9	0.0	86.1	87.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041007 - M12\_02)  
 Label: Which could be Pat's number  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	550	24.8	16.3	26.3	18.2	24.8	12.5	1.9	24.3	25.4
Armenia	550	48.9	6.2	15.8	15.9	48.9	13.0	0.2	44.8	52.9
Australia	591	48.8	13.5	11.6	24.1	48.8	1.7	0.3	49.4	48.2
Austria	698	45.2	6.5	17.9	24.9	45.2	5.4	0.1	44.4	45.8
Chinese Taipei	593	72.7	4.6	6.0	16.4	72.7	0.3	0.0	73.4	72.1
Colombia	681	22.9	16.7	30.0	19.2	22.9	7.7	3.5	20.7	24.5
Czech Republic	602	56.5	10.0	9.2	17.0	56.5	7.3	0.0	57.8	55.3
Denmark	506	48.2	10.0	11.7	20.2	48.2	9.9	0.0	50.0	46.6
El Salvador	585	19.9	19.7	30.2	21.0	19.9	6.3	2.9	19.7	20.1
England	622	50.8	9.7	12.3	23.8	50.8	3.4	0.0	53.2	48.3
Georgia	599	32.0	17.2	21.5	18.3	32.0	8.0	3.0	30.1	33.6
Germany	721	55.1	5.3	12.5	20.5	55.1	6.4	0.1	50.5	59.8
Hong Kong SAR	537	68.3	5.3	6.9	19.1	68.3	0.4	0.0	67.1	69.5
Hungary	583	60.2	10.8	10.8	12.1	60.2	4.9	1.0	61.9	58.6
Iran, Islamic Rep. of	533	40.7	16.1	14.6	21.0	40.7	6.3	1.5	41.7	39.5
Italy	640	46.8	5.3	18.1	23.9	46.8	5.7	0.1	51.4	42.7
Japan	640	76.4	4.3	7.6	10.5	76.4	1.0	0.1	76.3	76.5
Kazakhstan	571	60.2	7.8	12.3	19.6	60.2	0.2	0.0	68.3	53.7
Kuwait	535	30.8	16.6	28.7	14.5	30.8	8.5	0.9	32.3	29.3
Latvia	563	53.0	6.7	12.4	26.0	53.0	2.0	0.0	53.7	52.4
Lithuania	578	38.8	8.8	18.8	27.7	38.8	5.6	0.2	37.1	40.9
Morocco	536	23.2	14.5	24.9	25.0	23.2	8.6	3.7	23.8	22.8
Netherlands	473	55.0	7.2	14.4	22.4	55.0	1.0	0.0	56.0	54.0
New Zealand	724	39.0	14.6	16.6	27.7	39.0	1.8	0.2	42.5	35.4
Norway	597	40.3	11.5	17.9	24.4	40.3	5.6	0.2	37.6	43.5
Qatar	991	14.9	25.1	28.2	20.8	14.9	9.4	1.5	17.1	12.7
Russian Federation	643	58.9	4.0	12.4	21.8	58.9	2.3	0.5	59.8	58.0
Scotland	568	43.1	12.0	11.1	28.6	43.1	5.3	0.0	41.3	44.9
Singapore	730	44.0	6.1	12.8	36.8	44.0	0.3	0.0	43.0	45.0
Slovak Republic	706	62.5	7.3	14.1	10.5	62.5	5.6	0.0	67.0	57.9
Slovenia	630	39.3	10.2	15.8	29.9	39.3	4.4	0.4	37.3	41.1
Sweden	665	48.0	9.0	12.1	26.4	48.0	4.4	0.2	47.9	48.0
Tunisia	588	28.7	14.5	17.8	18.0	28.7	16.8	4.2	30.7	27.0
Ukraine	619	38.8	8.6	18.5	31.3	38.8	2.8	0.0	39.4	38.2
United States	1135	54.8	8.4	13.7	21.4	54.8	1.6	0.1	53.1	56.5
Yemen	819	25.2	15.0	26.1	21.5	25.2	10.3	1.9	28.5	22.5
International Avg.	636	44.9	10.7	16.4	21.7	44.9	5.5	0.8	45.4	44.5
Alberta, Canada	577	43.4	11.3	13.9	27.7	43.4	3.5	0.2	43.6	43.2
British Columbia, Canada	596	44.9	9.3	15.7	25.1	44.9	4.6	0.3	44.2	45.5
Dubai, UAE	450	39.2	14.3	20.2	21.6	39.2	4.8	0.0	38.5	39.7
Massachusetts, US	250	65.7	6.1	7.1	20.3	65.7	0.9	0.0	62.6	69.0
Minnesota, US	261	59.7	7.8	12.3	19.4	59.7	0.8	0.0	49.2	70.9
Ontario, Canada	492	50.2	10.0	13.0	25.9	50.2	0.9	0.0	45.0	55.5
Quebec, Canada	569	54.4	9.2	9.6	22.4	54.4	4.4	0.0	56.5	52.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041280 - M12\_03)  
 Label: Number closest in size to 1362 ÷ 32  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	575	26.9	36.4	26.9	15.5	4.8	14.0	2.5	27.8	26.0
Armenia	538	48.8	23.4	48.8	8.6	3.2	15.8	0.2	50.4	47.2
Australia	591	41.2	48.1	41.2	7.0	0.9	2.5	0.3	42.0	40.4
Austria	698	50.8	37.8	50.8	6.3	1.1	3.9	0.1	50.8	50.8
Chinese Taipei	593	85.7	4.5	85.7	6.8	2.4	0.7	0.0	86.2	85.2
Colombia	681	22.6	50.5	22.6	11.5	4.1	6.8	4.6	23.3	22.0
Czech Republic	602	28.2	47.9	28.2	7.3	2.5	14.0	0.0	24.9	31.4
Denmark	509	35.1	49.1	35.1	6.7	1.2	7.2	0.6	29.6	39.9
El Salvador	585	16.6	64.6	16.6	8.4	1.6	4.6	4.2	14.6	18.6
England	622	39.6	43.0	39.6	10.0	2.3	5.1	0.1	33.9	45.6
Georgia	598	43.9	28.5	43.9	13.5	3.5	7.6	3.0	41.3	46.1
Germany	721	43.7	38.3	43.7	9.3	2.0	6.6	0.1	35.7	51.8
Hong Kong SAR	537	77.6	9.7	77.6	9.4	2.0	1.3	0.0	78.0	77.1
Hungary	583	52.0	32.4	52.0	5.1	1.3	8.1	1.0	48.3	55.5
Iran, Islamic Rep. of	534	28.5	46.8	28.5	10.8	5.7	6.3	1.9	25.8	31.3
Italy	641	51.1	30.8	51.1	9.1	1.5	7.3	0.3	49.3	52.8
Japan	640	65.3	25.4	65.3	7.2	0.6	1.4	0.1	67.4	63.2
Kazakhstan	571	73.0	10.9	73.0	8.3	7.1	0.7	0.0	72.0	73.8
Kuwait	535	24.2	38.3	24.2	19.2	7.8	9.1	1.4	21.0	27.6
Latvia	563	61.1	19.4	61.1	11.7	5.7	2.2	0.0	59.6	62.4
Lithuania	578	58.2	18.8	58.2	9.1	7.5	6.2	0.2	59.4	56.8
Morocco	543	35.1	22.4	35.1	19.7	8.8	9.3	4.7	32.5	37.5
Netherlands	473	43.9	47.0	43.9	6.9	1.0	1.2	0.0	42.0	45.7
New Zealand	724	40.2	42.0	40.2	11.2	2.2	4.0	0.3	40.5	39.9
Norway	597	33.6	53.3	33.6	5.8	1.4	5.5	0.2	33.8	33.5
Qatar	991	23.9	46.5	23.9	16.9	5.2	5.7	1.7	24.2	23.6
Russian Federation	643	67.0	14.7	67.0	10.2	5.5	2.2	0.5	69.3	64.7
Scotland	568	29.9	53.8	29.9	8.5	1.2	6.1	0.5	27.5	32.4
Singapore	730	68.7	18.8	68.7	8.8	3.0	0.8	0.0	71.8	65.4
Slovak Republic	706	35.8	45.8	35.8	7.3	2.7	8.3	0.0	38.7	32.9
Slovenia	630	31.8	52.3	31.8	6.7	1.1	7.7	0.4	28.1	35.0
Sweden	665	38.2	47.6	38.2	6.8	0.0	7.1	0.3	39.3	37.1
Tunisia	588	20.9	40.6	20.9	13.8	3.4	16.6	4.7	20.9	20.9
Ukraine	619	52.2	25.1	52.2	13.7	4.9	4.1	0.0	54.4	50.1
United States	1135	43.3	42.7	43.3	8.5	2.0	3.4	0.1	42.0	44.6
Yemen	818	22.5	32.0	22.5	19.3	13.7	10.5	1.9	20.7	24.0
International Avg.	637	43.4	35.8	43.4	10.1	3.5	6.2	1.0	42.4	44.2
Alberta, Canada	577	36.7	50.4	36.7	8.3	0.8	3.6	0.2	32.8	40.5
British Columbia, Canada	596	35.9	47.2	35.9	8.1	1.4	6.9	0.3	29.5	42.2
Dubai, UAE	450	37.1	37.9	37.1	10.0	7.0	7.9	0.1	39.7	34.9
Massachusetts, US	250	55.6	36.3	55.6	5.3	1.2	1.5	0.0	51.8	59.8
Minnesota, US	261	46.7	44.9	46.7	7.3	0.7	0.4	0.0	43.3	50.2
Ontario, Canada	492	35.8	53.6	35.8	4.7	1.6	4.3	0.0	34.9	36.6
Quebec, Canada	569	37.4	46.0	37.4	9.6	1.2	5.7	0.0	33.7	41.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041059 - M12\_04)  
 Label: Fraction of circles that are black  
 Type: CR Key: -

COUNTRY	N	10	11	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	595	37.3	1.2	0.2	7.2	4.5	27.4	19.4	2.9	38.4	42.8	34.1
Armenia	552	59.0	3.9	0.1	2.1	7.4	22.8	4.5	0.2	62.9	64.3	61.6
Australia	591	53.0	2.4	0.9	5.1	21.2	14.2	2.9	0.3	55.4	61.1	49.5
Austria	698	9.1	0.5	0.0	2.0	46.0	21.7	20.5	0.2	9.6	8.1	11.1
Chinese Taipei	593	94.6	0.8	0.0	0.9	0.0	3.7	0.0	0.0	95.4	97.3	93.8
Colombia	681	8.9	0.1	0.0	4.0	48.6	23.5	10.0	4.8	9.1	8.3	9.7
Czech Republic	602	2.4	0.5	0.0	0.6	30.6	40.6	25.2	0.0	2.9	2.1	3.7
Denmark	510	45.4	0.6	0.5	9.5	21.9	17.3	4.2	0.6	46.1	46.8	45.4
El Salvador	585	5.4	0.0	0.1	2.8	54.5	20.5	12.3	4.3	5.4	4.5	6.3
England	622	63.4	4.1	0.0	4.2	5.9	19.6	2.8	0.1	67.5	67.3	67.7
Georgia	599	19.2	0.2	0.6	2.1	45.3	20.9	8.5	3.4	19.4	21.0	18.0
Germany	721	2.8	0.6	0.0	1.5	42.8	30.1	21.8	0.3	3.5	1.9	5.1
Hong Kong SAR	537	60.9	34.6	0.3	1.2	0.2	2.3	0.5	0.0	95.4	95.8	95.0
Hungary	583	33.7	2.6	0.0	4.5	23.6	31.9	2.6	1.0	36.3	38.3	34.5
Iran, Islamic Rep. of	534	40.5	0.0	0.0	4.5	24.1	20.6	8.4	1.9	40.5	40.9	40.0
Italy	642	55.6	0.3	1.3	6.9	15.0	15.1	5.4	0.3	56.0	54.2	57.6
Japan	640	78.7	0.7	0.6	4.3	2.3	12.0	1.4	0.1	79.4	81.6	77.2
Kazakhstan	571	36.8	7.8	0.2	1.5	34.5	17.1	2.1	0.0	44.6	46.0	43.5
Kuwait	535	16.7	0.0	0.0	7.4	23.9	31.2	19.0	1.7	16.7	22.3	10.9
Latvia	563	51.3	4.7	0.0	1.7	7.6	33.6	1.2	0.0	56.0	61.8	51.1
Lithuania	578	46.3	1.9	0.0	0.0	30.4	15.3	5.8	0.2	48.2	50.7	45.1
Morocco	550	8.9	1.7	0.4	4.5	15.4	32.5	31.6	4.9	10.6	10.8	10.5
Netherlands	473	66.3	4.1	0.0	3.8	11.8	12.9	1.1	0.0	70.4	74.3	66.8
New Zealand	724	50.6	1.7	0.3	5.7	17.8	21.0	2.6	0.3	52.2	55.6	48.8
Norway	597	31.1	0.8	0.2	3.5	35.3	21.9	6.8	0.4	31.9	31.0	33.0
Qatar	991	7.9	0.1	0.0	1.9	28.2	43.7	16.4	1.9	8.0	10.9	5.1
Russian Federation	643	33.4	4.8	0.0	1.2	30.3	25.1	4.6	0.5	38.3	41.4	35.2
Scotland	568	44.3	0.8	0.6	2.7	27.0	19.5	4.5	0.5	45.1	44.4	45.9
Singapore	730	57.2	31.6	0.3	1.2	1.8	7.6	0.5	0.0	88.7	90.0	87.4
Slovak Republic	706	23.7	1.1	0.0	5.1	11.0	38.4	20.7	0.1	24.8	28.6	20.9
Slovenia	629	23.7	1.7	0.0	2.6	31.6	34.5	5.6	0.4	25.4	26.4	24.6
Sweden	665	22.3	0.3	0.5	7.6	14.9	33.4	20.8	0.3	22.5	24.8	20.4
Tunisia	588	3.2	0.0	0.0	0.7	15.2	47.8	28.1	4.9	3.2	4.0	2.5
Ukraine	619	20.2	0.9	0.0	2.1	25.7	41.2	9.7	0.1	21.1	19.1	23.1
United States	1135	72.4	3.9	0.5	1.8	7.5	12.4	1.4	0.2	76.3	77.1	75.6
Yemen	817	19.8	1.0	0.1	3.6	20.0	35.4	18.2	2.1	20.7	24.2	17.9
International Avg.	638	36.3	3.4	0.2	3.4	21.8	24.1	9.8	1.1	39.7	41.1	38.3
Alberta, Canada	577	66.6	0.8	0.3	2.4	15.5	11.1	2.9	0.3	67.4	69.2	65.7
British Columbia, Canada	596	59.2	0.3	0.1	3.0	21.7	10.2	4.6	0.9	59.5	62.7	56.4
Dubai, UAE	450	55.0	1.7	0.0	5.0	17.9	16.3	3.7	0.3	56.7	61.7	52.6
Massachusetts, US	250	79.7	5.4	1.5	2.1	3.6	7.3	0.4	0.0	85.1	87.4	82.6
Minnesota, US	261	79.6	4.5	0.4	1.8	4.9	7.5	1.3	0.0	84.1	83.8	84.4
Ontario, Canada	492	60.2	0.4	0.2	3.9	18.4	13.4	3.5	0.0	60.6	60.3	60.9
Quebec, Canada	569	68.5	1.5	0.9	4.0	10.3	12.5	2.3	0.1	69.9	68.5	71.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041046 - M12\_05)  
 Label: Which is the largest fraction  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	567	25.9	25.9	2.2	5.5	58.1	4.4	3.9	23.6	28.3
Armenia	550	58.0	58.0	0.9	2.5	35.1	3.3	0.2	58.8	57.1
Australia	591	62.4	62.4	1.2	0.6	34.4	1.1	0.3	61.1	63.8
Austria	698	40.4	40.4	1.3	1.9	52.1	3.7	0.6	32.5	47.5
Chinese Taipei	593	77.5	77.5	0.0	0.7	21.8	0.0	0.0	75.5	79.3
Colombia	681	6.5	6.5	0.7	3.3	81.9	2.5	5.1	5.2	7.5
Czech Republic	602	7.2	7.2	1.0	1.8	76.8	13.2	0.0	4.5	9.8
Denmark	510	40.8	40.8	0.3	2.7	53.2	1.8	1.1	34.0	46.9
El Salvador	585	9.7	9.7	8.7	16.6	53.0	6.9	5.2	7.0	12.5
England	622	69.6	69.6	2.1	1.9	23.8	2.5	0.1	69.3	70.0
Georgia	599	54.8	54.8	1.4	1.7	36.6	2.2	3.4	56.2	53.7
Germany	721	45.1	45.1	3.1	4.5	42.0	5.0	0.3	36.3	54.0
Hong Kong SAR	537	86.0	86.0	0.9	0.7	11.7	0.7	0.0	84.8	87.2
Hungary	583	48.7	48.7	0.5	1.1	47.1	1.5	1.0	42.7	54.3
Iran, Islamic Rep. of	534	21.6	21.6	0.5	2.5	67.8	5.5	2.1	18.3	25.1
Italy	640	43.0	43.0	0.7	1.3	53.4	1.0	0.6	40.6	45.1
Japan	640	49.0	49.0	0.3	0.1	50.2	0.3	0.1	47.5	50.6
Kazakhstan	571	49.5	49.5	0.7	0.8	48.9	0.0	0.0	54.9	45.3
Kuwait	535	33.4	33.4	6.0	6.4	49.6	2.8	1.8	30.6	36.3
Latvia	563	74.0	74.0	0.4	1.9	23.5	0.3	0.0	77.3	71.1
Lithuania	578	66.5	66.5	0.2	0.6	31.1	0.5	1.1	62.2	71.7
Morocco	539	13.7	13.7	19.6	27.1	19.1	15.0	5.4	12.6	14.7
Netherlands	473	46.7	46.7	0.8	1.6	50.1	0.8	0.0	45.2	48.1
New Zealand	724	70.6	70.6	2.1	2.3	23.3	1.5	0.3	71.7	69.4
Norway	597	38.2	38.2	2.6	1.9	53.6	3.2	0.5	32.9	44.4
Qatar	991	29.3	29.3	9.2	12.3	43.7	3.2	2.3	26.9	31.7
Russian Federation	643	43.5	43.5	1.0	1.1	50.7	3.2	0.5	40.4	46.6
Scotland	568	42.9	42.9	1.5	2.6	51.4	1.0	0.5	41.7	44.2
Singapore	730	81.0	81.0	1.7	2.4	14.6	0.4	0.0	80.7	81.3
Slovak Republic	706	22.7	22.7	0.5	0.9	72.1	3.5	0.3	21.2	24.3
Slovenia	630	39.8	39.8	0.8	3.1	53.9	2.0	0.5	35.3	43.7
Sweden	665	33.1	33.1	1.8	4.5	54.1	6.0	0.6	32.8	33.4
Tunisia	588	5.4	5.4	4.4	12.1	56.5	16.1	5.4	4.8	5.9
Ukraine	619	41.9	41.9	0.6	1.4	55.2	0.7	0.2	44.4	39.4
United States	1135	70.3	70.3	1.1	1.3	25.0	2.1	0.2	70.5	70.1
Yemen	818	17.1	17.1	7.4	11.0	53.4	8.8	2.2	18.7	15.9
International Avg.	637	43.5	43.5	2.4	4.0	45.2	3.5	1.3	41.7	45.3
Alberta, Canada	577	36.2	36.2	1.0	1.1	58.7	2.7	0.3	31.0	41.3
British Columbia, Canada	596	37.1	37.1	0.3	2.1	56.9	2.7	0.9	33.9	40.3
Dubai, UAE	450	32.0	32.0	2.4	3.1	59.5	2.6	0.4	28.8	34.7
Massachusetts, US	250	90.0	90.0	0.8	0.0	8.7	0.4	0.0	88.7	91.4
Minnesota, US	261	82.3	82.3	0.6	0.4	15.3	0.8	0.6	75.1	90.0
Ontario, Canada	492	38.0	38.0	0.1	1.7	59.6	0.5	0.0	37.2	38.8
Quebec, Canada	569	53.2	53.2	0.8	0.9	44.5	0.5	0.1	46.3	60.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M041048 - M12\_06)  
 Label: Height of wall made of 4 rows  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	32.0	15.1	32.0	13.9	25.1	9.5	4.4	31.9	32.1
Armenia	550	64.8	10.9	64.8	4.4	8.1	11.6	0.2	67.0	62.7
Australia	591	47.8	18.6	47.8	12.8	18.5	1.9	0.4	46.7	48.9
Austria	698	49.6	21.2	49.6	10.6	13.8	4.2	0.6	46.6	52.3
Chinese Taipei	593	67.5	18.4	67.5	6.7	6.2	1.3	0.0	61.6	72.6
Colombia	681	27.7	26.0	27.7	15.1	19.2	6.9	5.1	20.0	33.5
Czech Republic	602	44.0	22.6	44.0	7.8	18.5	7.1	0.0	41.2	46.7
Denmark	509	47.7	15.8	47.7	16.3	13.7	5.3	1.1	42.8	52.1
El Salvador	585	25.6	25.9	25.6	15.7	22.0	5.4	5.4	23.0	28.4
England	622	53.6	16.1	53.6	12.0	15.5	2.7	0.1	48.8	58.7
Georgia	599	43.3	22.1	43.3	6.1	12.8	11.8	3.9	44.5	42.3
Germany	721	54.8	17.9	54.8	11.1	10.4	5.4	0.4	47.7	61.9
Hong Kong SAR	537	76.9	10.3	76.9	5.7	6.4	0.7	0.0	74.8	79.1
Hungary	583	47.8	24.3	47.8	7.9	16.0	3.0	1.0	45.0	50.3
Iran, Islamic Rep. of	532	29.2	21.3	29.2	13.7	25.3	8.5	2.1	25.3	33.2
Italy	641	43.4	23.6	43.4	9.9	18.1	4.4	0.6	40.6	45.9
Japan	640	62.6	13.5	62.6	9.3	13.0	1.7	0.1	57.9	67.2
Kazakhstan	571	74.6	12.3	74.6	5.6	7.5	0.0	0.0	81.4	69.1
Kuwait	535	29.4	18.0	29.4	20.3	22.8	7.7	1.9	27.5	31.3
Latvia	563	66.1	17.3	66.1	7.4	8.4	0.7	0.0	63.5	68.3
Lithuania	578	57.9	24.2	57.9	5.3	9.2	2.3	1.1	58.0	57.7
Morocco	538	32.2	16.2	32.2	15.3	21.5	9.0	5.8	33.6	31.2
Netherlands	473	59.7	13.5	59.7	12.8	13.1	0.9	0.0	55.4	63.6
New Zealand	724	45.0	22.9	45.0	12.4	17.1	2.2	0.4	43.2	46.8
Norway	597	38.9	17.4	38.9	16.9	22.9	3.2	0.6	33.8	44.9
Qatar	991	31.4	23.3	31.4	20.1	17.8	5.1	2.3	29.5	33.3
Russian Federation	643	65.3	14.1	65.3	6.0	12.1	2.0	0.5	65.7	64.8
Scotland	568	39.1	20.7	39.1	14.3	20.5	4.9	0.5	37.8	40.5
Singapore	730	76.9	10.1	76.9	5.0	7.0	1.0	0.0	78.2	75.6
Slovak Republic	706	45.0	21.0	45.0	9.2	18.7	5.9	0.3	44.6	45.4
Slovenia	630	38.1	19.4	38.1	13.7	24.8	3.5	0.5	32.9	42.6
Sweden	665	46.5	13.9	46.5	17.1	19.5	2.3	0.7	40.0	52.9
Tunisia	588	28.1	18.0	28.1	12.4	20.4	15.2	5.9	26.4	29.5
Ukraine	619	52.7	20.2	52.7	8.5	14.9	3.4	0.2	51.3	54.1
United States	1135	42.3	24.2	42.3	12.9	18.6	1.8	0.2	39.8	44.8
Yemen	818	30.3	14.9	30.3	26.6	16.0	9.4	2.8	31.8	29.2
International Avg.	637	47.7	18.5	47.7	11.7	16.0	4.8	1.4	45.6	49.8
Alberta, Canada	577	41.3	22.9	41.3	14.3	18.6	2.7	0.3	34.6	47.8
British Columbia, Canada	596	44.5	18.0	44.5	15.1	16.7	4.6	1.0	38.4	50.4
Dubai, UAE	450	39.0	23.5	39.0	12.9	18.6	5.6	0.4	36.4	41.2
Massachusetts, US	250	60.4	15.0	60.4	9.6	13.4	1.6	0.0	55.5	65.7
Minnesota, US	261	54.0	20.8	54.0	9.7	13.5	1.4	0.6	49.0	59.3
Ontario, Canada	492	38.5	22.4	38.5	14.0	22.0	3.0	0.0	37.9	39.2
Quebec, Canada	569	45.2	21.6	45.2	12.9	16.9	3.4	0.1	44.1	46.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041169 - M12\_07)  
 Label: Shape and its reflection  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	527	22.2	22.2	13.5	21.3	24.3	11.3	7.4	25.2	19.0
Armenia	544	52.3	52.3	10.7	13.1	12.6	11.0	0.3	52.3	52.3
Australia	591	67.3	67.3	9.6	13.7	6.6	1.9	0.9	70.8	63.7
Austria	698	56.2	56.2	13.9	14.6	11.6	3.0	0.7	57.2	55.2
Chinese Taipei	593	74.6	74.6	7.9	7.9	7.9	1.7	0.0	75.0	74.3
Colombia	681	17.9	17.9	12.3	29.9	25.9	7.1	6.8	17.6	18.2
Czech Republic	602	33.1	33.1	7.6	12.6	42.5	4.1	0.1	35.2	31.1
Denmark	510	75.7	75.7	4.8	11.2	4.8	2.0	1.5	76.2	75.2
El Salvador	585	14.1	14.1	9.1	39.5	25.7	5.3	6.3	11.8	16.6
England	622	74.7	74.7	7.0	6.4	9.2	2.3	0.4	77.3	71.8
Georgia	599	20.1	20.1	9.9	9.4	41.6	14.2	4.8	14.3	25.1
Germany	721	67.7	67.7	7.8	11.4	7.2	5.4	0.6	67.0	68.4
Hong Kong SAR	537	83.7	83.7	4.1	4.6	6.9	0.6	0.0	84.3	83.1
Hungary	583	51.6	51.6	10.7	14.9	17.5	3.9	1.3	53.6	49.8
Iran, Islamic Rep. of	532	23.5	23.5	17.0	18.7	29.3	9.2	2.3	24.6	22.3
Italy	627	51.3	51.3	13.4	11.9	18.3	3.9	1.1	51.8	50.9
Japan	640	88.8	88.8	1.7	3.6	4.2	1.2	0.5	90.8	86.7
Kazakhstan	571	59.0	59.0	4.8	13.9	21.9	0.4	0.0	64.8	54.3
Kuwait	535	23.1	23.1	18.4	17.2	27.5	10.7	3.2	22.6	23.7
Latvia	563	66.7	66.7	7.3	13.4	11.0	1.6	0.0	65.5	67.7
Lithuania	578	54.2	54.2	10.1	14.9	15.0	4.7	1.1	53.6	55.0
Morocco	506	26.5	26.5	15.4	18.8	19.2	12.3	7.7	22.3	30.3
Netherlands	473	74.5	74.5	7.2	11.6	6.7	0.1	0.0	73.5	75.4
New Zealand	724	65.2	65.2	6.6	11.7	13.4	2.3	0.9	66.1	64.3
Norway	597	56.7	56.7	10.2	14.2	14.6	3.0	1.4	55.6	57.9
Qatar	991	18.9	18.9	21.9	22.2	24.2	9.7	3.1	19.5	18.3
Russian Federation	643	51.4	51.4	7.7	17.8	18.5	4.2	0.5	47.5	55.2
Scotland	568	57.0	57.0	11.3	11.6	15.3	3.9	0.9	59.4	54.4
Singapore	730	65.3	65.3	7.5	13.5	13.1	0.6	0.0	61.5	69.5
Slovak Republic	706	48.1	48.1	12.6	16.1	18.8	3.6	0.8	46.7	49.4
Slovenia	630	58.8	58.8	7.9	16.7	10.4	5.7	0.6	62.3	55.7
Sweden	665	54.8	54.8	7.4	18.0	15.4	3.6	0.8	56.8	52.7
Tunisia	588	10.4	10.4	8.6	14.9	29.4	29.8	6.9	9.3	11.3
Ukraine	619	40.1	40.1	10.9	21.7	22.5	4.4	0.5	38.2	42.0
United States	1135	58.6	58.6	12.3	13.8	14.3	0.8	0.2	55.9	61.1
Yemen	818	11.4	11.4	9.1	27.5	23.4	25.1	3.5	12.1	10.9
International Avg.	634	49.3	49.3	9.9	15.4	17.5	6.0	1.9	49.4	49.3
Alberta, Canada	577	49.9	49.9	13.4	15.5	18.7	1.8	0.7	51.4	48.4
British Columbia, Canada	596	50.5	50.5	13.2	15.3	16.0	3.7	1.3	48.6	52.4
Dubai, UAE	450	39.8	39.8	13.4	13.1	28.4	4.5	0.8	43.2	36.9
Massachusetts, US	250	65.8	65.8	9.4	14.6	9.0	1.3	0.0	66.7	64.8
Minnesota, US	261	70.8	70.8	5.0	11.3	11.6	0.7	0.6	68.0	73.8
Ontario, Canada	492	70.6	70.6	6.7	9.7	9.9	2.5	0.7	74.2	66.9
Quebec, Canada	569	59.1	59.1	7.7	13.2	18.0	1.7	0.2	58.1	60.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041333 - M12\_08)

Label: How many cubes are in the box

Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	577	13.9	12.9	6.3	13.9	56.0	3.7	7.2	12.1	15.7
Armenia	552	37.2	12.5	9.3	37.2	37.2	3.3	0.5	38.2	36.3
Australia	591	47.9	3.5	12.2	47.9	33.7	1.6	1.0	40.9	55.3
Austria	698	39.3	4.9	11.4	39.3	41.8	1.9	0.7	36.4	42.0
Chinese Taipei	593	73.3	4.6	3.6	73.3	17.9	0.5	0.0	74.5	72.3
Colombia	681	7.6	10.4	7.7	7.6	64.9	2.0	7.5	5.5	9.2
Czech Republic	602	39.5	4.7	11.3	39.5	43.3	1.0	0.2	31.8	46.9
Denmark	510	54.1	5.2	11.3	54.1	26.4	1.6	1.5	49.2	58.4
El Salvador	585	13.9	11.5	5.1	13.9	59.4	3.8	6.3	11.8	16.0
England	622	34.0	4.0	11.5	34.0	49.3	0.9	0.4	30.6	37.7
Georgia	599	18.9	14.7	5.5	18.9	53.9	1.8	5.1	19.3	18.7
Germany	721	60.0	2.3	10.7	60.0	25.1	1.5	0.6	56.1	63.9
Hong Kong SAR	537	54.0	9.2	12.4	54.0	23.6	0.6	0.0	50.6	57.6
Hungary	583	35.4	5.1	11.2	35.4	45.9	0.9	1.4	35.5	35.4
Iran, Islamic Rep. of	532	14.2	12.3	7.2	14.2	61.6	2.1	2.6	11.4	17.2
Italy	640	23.9	4.3	6.4	23.9	62.1	2.2	1.1	27.2	20.9
Japan	640	52.5	8.8	11.3	52.5	26.3	0.6	0.5	51.3	53.6
Kazakhstan	571	47.3	5.5	5.0	47.3	42.2	0.0	0.0	50.7	44.6
Kuwait	535	11.2	9.6	5.3	11.2	68.2	2.0	3.7	8.9	13.6
Latvia	563	47.0	4.2	8.0	47.0	39.7	0.9	0.1	48.2	46.0
Lithuania	578	64.0	4.8	6.0	64.0	23.4	0.4	1.4	59.7	69.2
Morocco	542	19.3	13.6	9.7	19.3	46.7	3.3	7.5	19.8	18.9
Netherlands	473	78.6	0.6	6.5	78.6	14.1	0.1	0.0	77.3	79.9
New Zealand	724	26.1	5.8	11.4	26.1	54.5	1.1	1.1	26.5	25.6
Norway	597	29.3	8.3	14.5	29.3	45.1	0.9	1.8	24.4	35.1
Qatar	991	10.3	12.6	8.7	10.3	63.2	1.9	3.3	10.2	10.5
Russian Federation	643	40.0	5.4	11.7	40.0	40.8	1.4	0.7	38.9	41.1
Scotland	568	22.6	5.5	7.3	22.6	61.6	1.7	1.2	22.5	22.7
Singapore	730	80.2	1.0	5.8	80.2	12.9	0.2	0.0	80.3	80.0
Slovak Republic	706	41.6	5.1	8.1	41.6	42.9	1.3	1.0	39.5	43.6
Slovenia	630	38.2	4.1	9.3	38.2	46.9	1.0	0.6	35.7	40.3
Sweden	665	40.3	3.4	8.6	40.3	45.4	1.1	1.2	38.5	42.1
Tunisia	588	18.0	8.2	7.1	18.0	49.7	9.2	7.8	13.2	22.2
Ukraine	619	27.5	6.7	9.3	27.5	54.0	1.8	0.6	23.7	31.1
United States	1135	32.7	4.0	8.3	32.7	54.0	0.8	0.2	32.3	33.2
Yemen	818	19.2	14.6	13.3	19.2	43.0	6.3	3.5	19.3	19.0
International Avg.	637	36.5	7.0	8.8	36.5	43.8	1.8	2.0	34.8	38.2
Alberta, Canada	577	33.7	4.7	8.3	33.7	50.9	1.7	0.7	30.8	36.5
British Columbia, Canada	596	29.9	4.4	9.9	29.9	51.5	3.0	1.4	26.9	32.9
Dubai, UAE	450	12.6	6.5	6.4	12.6	72.0	1.6	0.8	10.8	14.1
Massachusetts, US	250	49.1	2.1	11.8	49.1	36.1	0.9	0.0	44.4	54.2
Minnesota, US	261	40.7	2.6	10.5	40.7	44.1	1.4	0.6	36.9	44.7
Ontario, Canada	492	28.1	2.7	9.6	28.1	57.7	1.3	0.7	23.2	33.0
Quebec, Canada	569	46.0	2.7	7.3	46.0	42.0	1.7	0.3	45.5	46.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041262 - M12\_09)  
 Label: What is the area of the triangle  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	29.7	20.4	29.7	26.0	10.6	5.5	7.9	30.2	29.2
Armenia	549	46.9	13.8	46.9	17.4	10.9	10.4	0.6	48.4	45.4
Australia	591	55.7	13.1	55.7	22.1	4.1	4.0	1.1	57.6	53.8
Austria	698	37.0	22.6	37.0	31.5	5.7	2.5	0.7	35.5	38.3
Chinese Taipei	593	83.4	4.9	83.4	7.9	3.4	0.4	0.0	87.3	80.0
Colombia	681	17.8	31.6	17.8	24.8	11.8	6.1	8.0	12.0	22.2
Czech Republic	602	24.9	34.3	24.9	29.0	4.5	7.1	0.2	27.1	22.7
Denmark	510	72.7	7.6	72.7	12.6	2.2	3.4	1.5	76.0	69.8
El Salvador	585	18.0	34.3	18.0	22.0	11.1	6.0	8.7	19.8	16.2
England	622	37.9	19.5	37.9	30.5	9.2	2.5	0.4	38.9	36.9
Georgia	596	29.4	15.8	29.4	25.2	17.4	6.5	5.7	29.2	29.7
Germany	721	41.5	21.0	41.5	27.2	5.3	4.4	0.7	42.3	40.7
Hong Kong SAR	537	91.2	1.7	91.2	4.5	2.5	0.1	0.0	93.0	89.3
Hungary	583	35.3	15.0	35.3	32.4	12.6	2.9	1.9	33.5	36.9
Iran, Islamic Rep. of	534	32.0	13.9	32.0	28.6	14.1	8.9	2.6	30.7	33.3
Italy	641	31.3	23.5	31.3	27.7	27.7	7.6	1.1	33.8	29.1
Japan	640	74.6	9.3	74.6	10.1	4.3	1.0	0.7	79.8	69.4
Kazakhstan	571	53.3	16.4	53.3	19.1	11.0	0.2	0.0	52.0	54.3
Kuwait	535	21.8	29.2	21.8	27.2	11.6	6.5	3.7	20.5	23.3
Latvia	563	51.3	8.8	51.3	21.4	16.6	1.7	0.1	54.8	48.5
Lithuania	578	46.2	12.5	46.2	16.3	18.8	4.7	1.4	45.2	47.5
Morocco	543	17.9	24.2	17.9	30.9	12.1	7.2	7.7	18.0	17.9
Netherlands	473	58.4	15.8	58.4	17.7	5.9	2.3	0.0	58.5	58.3
New Zealand	724	26.7	34.7	26.7	27.0	7.4	3.0	1.1	25.6	27.9
Norway	597	37.0	20.4	37.0	29.1	8.6	3.2	1.8	37.3	36.6
Qatar	991	19.6	30.8	19.6	27.9	13.9	4.6	3.3	17.0	22.3
Russian Federation	643	54.6	12.9	54.6	20.6	8.2	2.8	0.9	51.8	57.4
Scotland	568	41.0	24.7	41.0	24.6	4.8	3.5	1.4	41.6	40.4
Singapore	730	51.7	8.1	51.7	22.3	17.1	0.7	0.0	55.9	47.3
Slovak Republic	706	29.1	24.9	29.1	31.8	6.9	6.3	1.0	27.2	31.0
Slovenia	630	18.8	40.7	18.8	31.2	3.9	4.7	0.7	20.2	17.5
Sweden	665	27.2	26.2	27.2	34.5	5.1	5.7	1.4	27.7	26.8
Tunisia	588	33.4	14.9	33.4	19.5	12.5	11.6	8.0	31.2	35.4
Ukraine	619	36.9	22.7	36.9	24.4	11.8	3.5	0.7	36.4	37.3
United States	1135	38.8	21.0	38.8	31.8	7.3	0.8	0.2	37.2	40.2
Yemen	817	20.2	14.4	20.2	29.9	21.6	9.9	4.0	18.9	21.4
International Avg.	637	40.1	19.6	40.1	24.1	9.5	4.5	2.2	40.3	39.8
Alberta, Canada	577	35.0	25.9	35.0	29.8	5.6	2.8	1.0	35.6	34.4
British Columbia, Canada	596	32.8	30.1	32.8	26.7	4.8	4.3	1.4	32.8	32.7
Dubai, UAE	450	27.5	25.1	27.5	33.6	7.6	5.4	1.0	27.9	27.1
Massachusetts, US	250	68.3	10.0	68.3	17.5	2.5	1.8	0.0	67.0	69.7
Minnesota, US	261	52.8	7.7	52.8	29.0	9.8	0.0	0.6	52.3	53.4
Ontario, Canada	492	41.7	20.6	41.7	27.4	6.8	2.0	1.4	45.6	37.8
Quebec, Canada	569	48.1	22.0	48.1	22.7	2.5	4.3	0.4	49.0	47.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041267 - M12\_10)  
 Label: Draw line with given specification  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	595	13.0	4.3	3.0	41.9	29.3	8.5	13.0	11.8	14.1
Armenia	553	63.4	1.7	1.5	23.4	8.9	1.0	63.4	64.1	62.7
Australia	591	37.1	4.3	7.6	39.8	9.8	1.3	37.1	34.1	40.2
Austria	698	24.5	1.4	8.0	44.8	20.6	0.7	24.5	23.3	25.6
Chinese Taipei	593	16.9	45.2	1.5	28.6	7.8	0.0	16.9	17.8	16.1
Colombia	681	8.3	4.4	2.9	48.0	26.4	10.0	8.3	6.1	10.0
Czech Republic	602	39.0	5.2	7.0	23.9	23.8	1.1	39.0	39.4	38.5
Denmark	510	46.0	2.9	11.7	21.3	16.7	1.5	46.0	47.3	44.7
El Salvador	585	9.9	2.2	2.0	51.7	23.3	10.9	9.9	8.6	11.4
England	622	33.3	8.2	5.8	43.1	9.2	0.4	33.3	34.2	32.3
Georgia	596	19.4	6.1	0.6	23.8	43.0	7.1	19.4	20.5	18.4
Germany	721	23.0	17.7	7.6	38.2	12.5	1.0	23.0	19.3	26.7
Hong Kong SAR	537	60.0	3.3	20.6	14.2	2.0	0.0	60.0	57.1	62.9
Hungary	583	30.6	19.0	4.4	29.1	14.8	2.2	30.6	30.2	30.9
Iran, Islamic Rep. of	534	54.9	1.1	6.7	19.6	14.0	3.6	54.9	56.9	52.9
Italy	642	34.1	12.8	1.0	36.5	14.0	1.7	34.1	33.1	35.0
Japan	640	56.9	4.4	3.9	27.3	6.7	0.7	56.9	63.0	50.8
Kazakhstan	571	59.6	3.1	8.4	22.7	6.2	0.0	59.6	58.5	60.5
Kuwait	535	4.4	4.1	0.6	37.7	47.5	5.7	4.4	5.1	3.7
Latvia	563	39.1	5.3	7.1	37.0	11.0	0.5	39.1	42.0	36.7
Lithuania	578	18.8	27.6	1.7	37.4	11.9	2.6	18.8	17.2	20.7
Morocco	550	10.0	4.9	2.9	32.7	39.8	9.7	10.0	5.6	13.6
Netherlands	473	59.0	3.9	2.6	30.0	4.6	0.0	59.0	58.5	59.3
New Zealand	724	33.0	5.2	5.2	46.6	8.5	1.4	33.0	29.1	37.1
Norway	597	31.6	2.0	3.7	45.1	15.5	2.1	31.6	25.6	38.5
Qatar	991	4.6	2.0	2.1	44.8	42.5	4.0	4.6	4.8	4.3
Russian Federation	643	38.6	10.6	7.3	29.2	13.4	0.9	38.6	36.3	40.8
Scotland	568	25.9	6.9	5.0	41.1	19.5	1.7	25.9	26.1	25.6
Singapore	730	50.2	2.8	30.9	13.9	2.1	0.0	50.2	51.4	49.0
Slovak Republic	706	47.8	1.7	12.5	21.8	14.6	1.5	47.8	49.4	46.1
Slovenia	629	34.5	6.6	7.1	41.8	8.8	1.2	34.5	31.3	37.4
Sweden	665	38.4	2.5	7.2	38.2	12.1	1.7	38.4	41.4	35.4
Tunisia	588	11.2	1.6	6.2	47.4	24.5	9.0	11.2	13.0	9.7
Ukraine	619	31.5	2.9	3.4	42.1	18.9	1.3	31.5	26.4	36.4
United States	1135	37.7	7.3	7.7	43.6	3.4	0.3	37.7	37.0	38.4
Yemen	818	6.3	0.3	1.0	34.9	52.5	5.0	6.3	7.3	5.4
International Avg.	638	32.0	6.8	6.1	34.5	17.8	2.8	32.0	31.5	32.6
Alberta, Canada	577	36.1	7.0	6.7	42.0	7.3	1.0	36.1	34.0	38.1
British Columbia, Canada	596	36.2	5.3	5.1	40.8	10.9	1.8	36.2	30.9	41.4
Dubai, UAE	450	22.4	2.2	2.4	43.6	28.2	1.1	22.4	20.1	24.4
Massachusetts, US	250	44.7	5.6	9.1	36.9	3.7	0.0	44.7	42.0	47.7
Minnesota, US	261	36.8	7.8	7.8	44.2	2.8	0.6	36.8	37.3	36.2
Ontario, Canada	492	37.8	6.9	6.9	36.3	10.6	1.4	37.8	38.9	36.7
Quebec, Canada	569	26.0	6.7	5.9	43.3	17.3	0.9	26.0	26.9	25.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041177 - M12\_11)  
 Label: How many years older is Juan  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	556	28.4	14.4	22.7	28.4	20.3	4.0	10.2	24.7	32.2
Armenia	549	68.2	7.6	8.7	68.2	10.3	4.1	1.0	69.8	66.7
Australia	591	75.2	7.7	4.3	75.2	7.4	3.6	1.7	76.1	74.3
Austria	698	79.0	8.8	4.0	79.0	6.1	1.3	0.8	73.5	84.0
Chinese Taipei	593	91.3	2.3	2.7	91.3	2.9	0.5	0.4	94.7	88.3
Colombia	681	35.3	11.7	9.4	35.3	28.8	3.2	11.6	31.0	38.6
Czech Republic	602	73.8	6.9	7.5	73.8	6.8	2.6	2.4	72.7	74.8
Denmark	509	83.2	6.9	2.7	83.2	4.7	1.0	1.6	81.7	84.6
El Salvador	585	35.1	14.4	9.5	35.1	26.3	2.1	12.5	31.6	38.7
England	622	84.3	4.9	2.7	84.3	5.4	1.9	0.8	79.3	89.6
Georgia	599	54.4	11.4	10.6	54.4	12.2	2.5	8.9	62.7	47.2
Germany	721	81.6	6.1	5.0	81.6	4.4	1.9	1.0	80.3	82.8
Hong Kong SAR	537	93.5	1.6	2.4	93.5	2.4	0.1	0.0	94.3	92.6
Hungary	583	77.9	7.7	4.5	77.9	5.5	1.0	3.3	80.0	75.9
Iran, Islamic Rep. of	534	44.9	16.8	12.7	44.9	18.0	3.4	4.2	38.4	51.6
Italy	640	67.0	10.3	5.4	67.0	13.8	1.2	2.3	64.2	69.5
Japan	640	75.5	14.6	4.3	75.5	4.3	0.7	0.7	77.0	74.1
Kazakhstan	571	81.4	6.3	4.8	81.4	7.4	0.0	0.0	85.0	78.6
Kuwait	535	25.9	21.9	18.3	25.9	23.2	3.7	7.0	27.3	24.4
Latvia	563	87.8	4.3	4.4	87.8	2.2	0.6	0.7	89.1	86.6
Lithuania	578	81.8	7.2	4.0	81.8	3.6	0.8	2.6	79.4	84.8
Morocco	531	28.3	15.6	17.8	28.3	21.6	5.2	11.4	23.6	32.2
Netherlands	473	82.1	6.1	4.3	82.1	7.1	0.4	0.0	82.0	82.2
New Zealand	724	69.8	9.9	7.5	69.8	8.6	2.6	1.6	70.6	68.9
Norway	597	66.5	13.1	7.8	66.5	8.8	1.7	2.1	60.1	73.9
Qatar	976	32.0	23.0	26.9	32.0	10.0	3.4	4.7	30.5	33.7
Russian Federation	643	80.2	6.5	5.1	80.2	5.4	1.8	1.1	80.1	80.3
Scotland	568	70.7	9.3	7.6	70.7	8.7	2.0	1.7	67.4	74.2
Singapore	730	92.2	1.0	3.0	92.2	3.5	0.3	0.0	92.4	92.0
Slovak Republic	706	73.9	9.5	5.9	73.9	7.7	0.8	2.2	72.9	74.9
Slovenia	630	73.6	10.4	5.3	73.6	6.6	2.5	1.6	70.1	76.7
Sweden	665	80.3	6.5	3.7	80.3	6.3	1.5	1.8	77.8	82.6
Tunisia	588	24.1	17.3	15.4	24.1	19.0	14.4	9.8	24.7	23.5
Ukraine	619	68.3	12.9	7.6	68.3	8.3	1.5	1.4	69.1	67.6
United States	1135	79.2	6.0	5.6	79.2	8.0	0.7	0.4	78.6	79.8
Yemen	819	27.4	16.0	18.8	27.4	24.9	7.8	5.1	29.0	26.1
International Avg.	636	65.9	9.9	8.1	65.9	10.3	2.4	3.3	65.1	66.9
Alberta, Canada	577	70.6	7.6	8.6	70.6	9.1	2.9	1.0	66.8	74.5
British Columbia, Canada	596	72.9	9.0	7.4	72.9	6.5	1.8	2.3	69.4	76.4
Dubai, UAE	450	47.8	10.8	14.9	47.8	18.1	6.9	1.5	44.5	50.5
Massachusetts, US	250	84.4	1.8	5.8	84.4	5.7	1.9	0.4	84.9	83.8
Minnesota, US	261	86.3	3.6	5.6	86.3	3.2	0.7	0.6	81.8	91.1
Ontario, Canada	492	76.8	6.3	4.5	76.8	9.2	1.4	1.8	70.2	83.5
Quebec, Canada	569	70.3	8.5	6.7	70.3	10.0	2.5	2.0	66.9	73.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041271 - M12\_12)  
 Label: Selecting correct bar graph  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	569	25.9	10.8	9.5	33.3	25.9	9.9	10.7	30.1	21.7
Armenia	548	53.4	8.4	4.6	15.3	53.4	17.2	1.2	57.7	49.2
Australia	591	74.5	2.3	11.7	9.2	74.5	0.6	1.8	78.6	70.2
Austria	698	64.4	5.5	6.8	15.9	64.4	6.5	0.8	67.3	61.8
Chinese Taipei	593	81.0	2.5	4.4	11.0	81.0	0.7	0.4	82.7	79.6
Colombia	681	33.3	5.3	10.3	32.7	33.3	5.6	12.8	32.2	34.1
Czech Republic	602	59.3	6.1	4.8	19.6	59.3	7.7	2.4	61.9	56.9
Denmark	510	72.6	6.4	6.2	8.9	72.6	4.3	1.6	70.3	74.7
El Salvador	585	34.7	9.7	7.1	29.9	34.7	5.8	12.7	33.3	36.2
England	622	79.8	3.3	4.3	9.9	79.8	1.9	0.8	84.1	75.1
Georgia	596	44.5	6.4	8.7	21.6	44.5	9.6	9.2	47.2	42.1
Germany	721	67.5	4.6	9.0	12.0	67.5	5.9	1.0	66.5	68.5
Hong Kong SAR	537	93.4	1.7	1.0	3.4	93.4	0.4	0.0	93.0	93.9
Hungary	583	60.1	5.7	12.4	13.4	60.1	4.9	3.5	62.0	58.3
Iran, Islamic Rep. of	533	34.5	10.8	12.9	25.1	34.5	10.8	5.9	34.0	35.1
Italy	640	72.0	4.3	5.8	11.4	72.0	4.1	2.3	72.0	72.1
Japan	640	89.2	1.9	4.2	2.6	89.2	1.3	0.7	91.1	87.4
Kazakhstan	571	77.6	4.7	6.4	10.8	77.6	0.4	0.0	81.0	74.9
Kuwait	535	26.2	11.8	13.6	29.7	26.2	11.6	7.2	26.8	25.5
Latvia	563	69.6	2.8	8.0	16.0	69.6	2.7	0.9	76.6	63.9
Lithuania	578	64.7	3.8	6.2	18.3	64.7	4.2	2.8	65.0	64.2
Morocco	536	19.0	8.5	12.7	34.1	19.0	13.7	12.0	14.8	22.6
Netherlands	473	73.9	6.0	6.2	13.6	73.9	0.4	0.0	79.1	69.1
New Zealand	724	68.3	4.9	10.0	12.6	68.3	2.5	1.7	72.3	64.3
Norway	597	61.1	4.5	9.5	17.2	61.1	4.9	2.9	61.0	61.2
Qatar	991	24.2	15.2	13.4	31.6	24.2	10.7	4.9	26.8	21.6
Russian Federation	643	73.7	7.5	4.5	8.7	73.7	3.9	1.6	75.6	71.8
Scotland	568	67.8	7.6	4.6	12.6	67.8	5.5	1.9	68.1	67.4
Singapore	730	78.3	6.0	6.5	8.6	78.3	0.6	0.0	82.0	74.3
Slovak Republic	706	69.1	5.9	4.1	12.3	69.1	6.2	2.3	71.5	66.7
Slovenia	630	69.1	5.0	6.9	13.5	69.1	3.0	2.4	71.0	67.5
Sweden	665	72.5	4.8	9.1	8.2	72.5	3.0	2.4	72.8	72.3
Tunisia	588	26.3	5.3	9.0	25.4	26.3	23.2	10.8	33.5	20.1
Ukraine	619	58.2	8.5	8.8	16.7	58.2	6.4	1.4	60.0	56.5
United States	1135	81.2	3.6	5.1	7.2	81.2	2.2	0.7	83.9	78.6
Yemen	819	15.7	8.1	9.9	41.2	15.7	19.6	5.5	18.2	13.5
International Avg.	637	59.4	6.1	7.7	17.0	59.4	6.2	3.6	61.2	57.6
Alberta, Canada	577	78.4	4.8	5.5	8.7	78.4	1.4	1.1	80.4	76.3
British Columbia, Canada	596	76.3	4.1	5.8	9.2	76.3	2.2	2.3	81.6	71.2
Dubai, UAE	450	58.4	8.6	7.2	19.9	58.4	4.3	1.6	62.4	54.9
Massachusetts, US	250	84.0	2.5	8.5	2.5	84.0	0.9	1.6	87.5	80.1
Minnesota, US	261	80.4	6.2	6.5	4.3	80.4	2.1	0.6	80.4	80.4
Ontario, Canada	492	82.6	2.4	3.9	7.3	82.6	1.3	2.5	82.2	82.9
Quebec, Canada	569	71.1	3.6	7.2	12.5	71.1	3.6	2.0	72.5	69.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M041276A - M12\_13A)  
 Label: Who won the Triathlon  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	595	19.0	6.5	41.9	20.0	12.6	19.0	19.0	19.0
Armenia	553	40.6	2.4	31.1	20.6	5.2	40.6	41.6	39.6
Australia	591	50.6	3.3	41.2	3.0	1.9	50.6	55.2	45.9
Austria	698	57.3	4.9	30.6	5.5	1.7	57.3	54.8	59.7
Chinese Taipei	593	77.8	2.4	18.7	0.7	0.4	77.8	79.2	76.7
Colombia	681	15.4	2.0	55.4	12.4	14.7	15.4	12.7	17.5
Czech Republic	602	51.8	7.9	28.3	8.9	3.0	51.8	54.2	49.5
Denmark	510	68.2	2.2	22.1	4.4	3.1	68.2	66.3	69.9
El Salvador	585	7.9	2.4	60.3	14.5	15.0	7.9	7.6	8.2
England	622	51.7	4.3	39.4	3.8	0.8	51.7	47.9	55.7
Georgia	598	18.3	2.7	40.2	27.4	11.4	18.3	21.9	15.1
Germany	721	57.9	4.0	30.4	6.3	1.4	57.9	52.6	63.2
Hong Kong SAR	537	75.4	5.3	18.8	0.4	0.0	75.4	72.6	78.4
Hungary	583	56.5	3.7	32.7	2.6	4.5	56.5	54.4	58.5
Iran, Islamic Rep. of	533	23.8	1.0	52.3	14.9	8.0	23.8	22.3	25.3
Italy	642	51.0	2.8	35.6	7.5	3.0	51.0	47.3	54.4
Japan	640	69.7	3.3	26.1	0.3	0.7	69.7	68.0	71.3
Kazakhstan	571	53.0	7.8	32.0	7.0	0.2	53.0	51.5	54.3
Kuwait	535	5.0	0.6	63.0	23.1	8.2	5.0	4.8	5.1
Latvia	563	65.0	2.8	27.3	3.0	1.9	65.0	62.8	66.8
Lithuania	578	46.0	5.3	37.5	8.2	3.0	46.0	44.7	47.6
Morocco	550	14.0	3.1	45.7	23.3	13.8	14.0	13.6	14.4
Netherlands	473	54.2	9.5	32.8	3.1	0.3	54.2	57.3	51.4
New Zealand	724	43.3	2.2	49.8	2.4	2.3	43.3	42.1	44.6
Norway	597	39.6	4.4	45.0	7.1	3.9	39.6	36.4	43.4
Qatar	991	3.8	1.6	68.6	19.2	6.8	3.8	3.7	3.9
Russian Federation	643	52.5	1.5	35.1	8.1	2.7	52.5	51.3	53.6
Scotland	568	40.9	2.7	47.2	6.0	3.3	40.9	41.2	40.6
Singapore	730	67.4	4.3	27.5	0.5	0.3	67.4	67.9	66.8
Slovak Republic	706	46.3	2.2	40.4	7.4	3.7	46.3	49.0	43.6
Slovenia	630	49.8	3.5	40.4	3.4	2.9	49.8	48.7	50.7
Sweden	665	43.1	3.6	42.5	7.2	3.5	43.1	43.2	43.0
Tunisia	588	11.3	2.6	57.3	16.3	12.5	11.3	13.8	9.1
Ukraine	619	22.8	9.7	52.2	13.7	1.6	22.8	21.0	24.5
United States	1135	50.4	3.0	41.6	3.4	1.7	50.4	51.4	49.5
Yemen	818	0.9	0.5	67.9	22.4	8.3	0.9	0.9	0.9
International Avg.	638	41.7	3.7	40.5	9.4	4.7	41.7	41.2	42.3
Alberta, Canada	577	50.1	1.8	42.7	4.0	1.4	50.1	46.7	53.4
British Columbia, Canada	596	52.3	1.8	38.4	4.9	2.6	52.3	54.3	50.3
Dubai, UAE	450	34.0	3.3	49.8	10.6	2.3	34.0	41.7	27.6
Massachusetts, US	250	65.8	4.7	26.6	1.3	1.6	65.8	66.1	65.5
Minnesota, US	261	62.9	3.6	30.8	2.1	0.6	62.9	61.6	64.4
Ontario, Canada	492	47.5	2.3	44.2	3.4	2.5	47.5	47.7	47.4
Quebec, Canada	569	52.1	2.7	38.0	4.6	2.6	52.1	52.6	51.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Reasoning (M041276B - M12\_13B)  
 Label: What Sue needs to improve on  
 Type: CR Key: -

COUNTRY	N	10	11	12	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	.	.	.	.	.	.	.	.	.	.	.
Armenia	552	16.5	8.1	3.6	7.0	43.5	12.1	9.2	28.2	32.3	24.2
Australia	591	36.3	0.8	8.9	8.2	41.4	1.8	2.6	46.0	49.1	42.9
Austria	698	18.6	0.0	3.3	2.4	70.4	2.7	2.6	21.9	20.0	23.6
Chinese Taipei	593	42.4	0.0	1.4	8.2	47.4	0.1	0.6	43.8	44.0	43.5
Colombia	681	3.6	0.1	0.9	2.3	71.5	4.3	17.4	4.5	3.5	5.2
Czech Republic	602	29.6	0.7	3.7	8.7	51.1	1.7	4.5	34.0	34.1	33.9
Denmark	510	16.5	0.5	2.9	1.1	72.8	2.2	4.1	19.9	21.5	18.5
El Salvador	585	1.9	0.4	1.0	0.1	69.1	9.0	18.5	3.3	3.0	3.6
England	622	31.6	0.2	8.4	6.5	50.0	2.0	1.4	40.2	38.5	41.9
Georgia	597	6.6	0.6	1.9	2.3	54.0	16.0	18.7	9.1	10.2	8.1
Germany	721	44.1	0.4	3.1	5.8	41.5	2.5	2.6	47.5	49.1	46.0
Hong Kong SAR	537	46.0	0.8	3.4	3.2	46.5	0.0	0.2	50.1	55.1	45.0
Hungary	583	31.4	0.5	3.6	7.8	49.5	1.8	5.4	35.4	39.5	31.6
Iran, Islamic Rep. of	533	12.7	0.7	3.4	3.8	64.9	2.1	12.4	16.8	18.8	14.8
Italy	642	26.1	0.0	1.9	2.8	59.3	4.4	5.6	28.0	27.9	28.1
Japan	640	57.0	0.0	6.7	4.5	30.0	0.9	0.8	63.7	68.8	58.7
Kazakhstan	571	17.0	0.7	4.4	2.5	70.3	2.4	2.6	22.1	27.0	18.2
Kuwait	535	2.4	0.0	0.6	0.3	77.6	6.8	12.3	3.0	3.2	2.7
Latvia	563	37.9	0.4	3.4	7.7	46.9	1.4	2.4	41.6	45.8	38.2
Lithuania	578	15.6	0.0	0.9	4.5	69.3	2.8	6.9	16.5	17.5	15.3
Morocco	.	.	.	.	.	.	.	.	.	.	.
Netherlands	473	24.9	1.2	1.3	3.6	66.3	1.5	1.1	27.4	28.5	26.4
New Zealand	724	28.6	0.2	7.0	6.3	52.8	2.1	3.0	35.8	40.4	31.0
Norway	597	15.1	0.1	3.7	3.9	67.2	4.3	5.6	18.9	19.9	17.8
Qatar	991	0.4	0.0	0.6	0.5	82.6	5.0	10.9	1.0	1.4	0.6
Russian Federation	643	29.5	0.0	1.8	1.0	59.5	3.1	5.2	31.2	34.2	28.3
Scotland	568	18.9	0.1	4.8	4.1	62.0	5.0	5.1	23.8	24.6	22.9
Singapore	730	48.6	0.8	7.4	5.1	37.1	0.5	0.5	56.8	61.2	52.1
Slovak Republic	706	15.2	0.3	5.2	1.8	68.3	3.6	5.7	20.6	23.6	17.6
Slovenia	629	37.4	0.2	6.2	12.2	37.5	2.3	4.1	43.8	41.9	45.6
Sweden	665	27.2	0.7	3.0	6.2	55.7	2.4	4.8	31.0	34.8	27.2
Tunisia	588	4.4	1.2	5.2	2.7	70.2	2.0	14.3	10.8	13.1	8.7
Ukraine	619	9.2	0.0	2.4	6.7	70.9	7.0	3.7	11.6	12.9	10.3
United States	1135	26.8	0.2	9.6	6.4	51.4	2.8	2.7	36.6	37.7	35.6
Yemen	818	0.0	0.1	0.0	0.0	78.0	10.0	11.8	0.1	0.3	0.0
International Avg.	642	22.9	0.6	3.7	4.4	58.4	3.8	6.2	27.2	28.9	25.5
Alberta, Canada	577	36.1	1.1	7.5	4.9	45.2	2.0	3.2	44.7	45.8	43.7
British Columbia, Canada	596	30.6	0.5	11.0	8.9	42.5	2.7	3.7	42.2	45.1	39.4
Dubai, UAE	450	11.4	0.4	2.3	3.0	74.5	4.1	4.2	14.1	15.8	12.8
Massachusetts, US	250	45.0	0.4	13.3	6.0	31.1	2.6	1.6	58.7	57.1	60.5
Minnesota, US	261	36.0	0.0	7.3	9.0	43.9	3.1	0.6	43.3	39.2	47.7
Ontario, Canada	492	38.5	0.2	10.3	7.2	37.1	3.1	3.6	49.1	53.3	44.8
Quebec, Canada	569	32.7	1.1	11.0	5.3	43.3	3.0	3.6	44.8	46.2	43.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031346A - M13\_01A)  
 Label: Trading Cards\_Cartoon cards  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	30.4	54.0	13.5	2.1	30.4	28.6	32.0
Armenia	581	55.9	39.9	4.2	0.0	55.9	53.8	57.8
Australia	581	69.1	28.5	1.2	1.1	69.1	64.9	73.8
Austria	690	74.4	24.8	0.7	0.2	74.4	69.3	78.3
Chinese Taipei	594	85.9	13.1	1.0	0.0	85.9	85.0	86.6
Colombia	670	29.7	63.7	5.2	1.4	29.7	29.5	29.9
Czech Republic	588	62.6	32.8	4.4	0.3	62.6	50.8	74.2
Denmark	505	77.7	20.2	1.3	0.8	77.7	77.5	77.9
El Salvador	590	26.6	60.7	11.5	1.2	26.6	24.1	29.1
England	632	76.1	22.0	1.9	0.0	76.1	72.4	79.5
Georgia	589	43.9	41.6	11.8	2.7	43.9	39.9	47.8
Germany	736	79.0	19.4	1.4	0.2	79.0	72.8	85.0
Hong Kong SAR	541	87.3	12.3	0.4	0.0	87.3	86.9	87.6
Hungary	586	57.8	41.4	0.5	0.3	57.8	55.8	59.9
Iran, Islamic Rep. of	536	29.5	57.6	12.5	0.5	29.5	27.1	32.0
Italy	641	64.6	32.8	2.4	0.1	64.6	60.0	69.2
Japan	638	78.1	21.5	0.5	0.0	78.1	75.9	80.3
Kazakhstan	571	69.5	25.5	5.0	0.0	69.5	69.8	69.3
Kuwait	520	11.1	68.1	18.2	2.6	11.1	12.8	9.1
Latvia	563	74.0	24.7	1.2	0.0	74.0	71.8	76.5
Lithuania	571	78.5	20.2	1.3	0.0	78.5	76.6	80.5
Morocco	551	23.5	56.8	18.8	0.9	23.5	21.9	25.3
Netherlands	481	78.1	21.5	0.0	0.4	78.1	73.1	82.8
New Zealand	720	64.2	35.1	0.4	0.3	64.2	62.3	66.1
Norway	588	60.7	36.2	2.3	0.8	60.7	54.1	68.3
Qatar	991	8.7	76.1	14.0	1.2	8.7	7.9	9.5
Russian Federation	644	81.4	17.1	1.5	0.0	81.4	82.4	80.4
Scotland	576	59.3	40.5	0.0	0.3	59.3	56.2	62.4
Singapore	714	84.1	15.9	0.0	0.0	84.1	85.1	83.2
Slovak Republic	714	66.0	32.2	1.8	0.0	66.0	63.4	68.5
Slovenia	622	61.5	35.6	2.9	0.0	61.5	62.1	61.0
Sweden	662	75.7	23.4	0.7	0.2	75.7	72.0	79.6
Tunisia	590	22.2	64.8	11.0	2.0	22.2	22.4	21.9
Ukraine	608	62.6	34.3	2.8	0.4	62.6	59.0	66.3
United States	1132	72.3	26.7	0.7	0.2	72.3	67.6	77.0
Yemen	816	4.4	79.9	14.1	1.6	4.4	4.2	4.6
International Avg.	637	58.0	36.7	4.8	0.6	58.0	55.5	60.4
Alberta, Canada	564	71.9	26.7	1.4	0.0	71.9	69.3	74.6
British Columbia, Canada	597	71.7	26.0	1.9	0.4	71.7	67.1	76.3
Dubai, UAE	433	52.1	43.0	4.3	0.5	52.1	50.7	53.4
Massachusetts, US	246	86.2	13.4	0.3	0.0	86.2	84.0	88.5
Minnesota, US	267	77.9	21.7	0.4	0.0	77.9	76.3	79.4
Ontario, Canada	504	69.7	28.2	1.6	0.4	69.7	63.2	75.7
Quebec, Canada	577	75.2	23.1	1.8	0.0	75.2	69.1	82.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031346B - M13\_01B)  
 Label: Trading Cards\_Sports cards  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	591	13.3	8.8	4.9	56.1	14.3	2.6	13.3	9.1	17.2
Armenia	581	38.9	2.7	8.8	43.9	5.7	0.0	38.9	35.6	41.8
Australia	581	35.9	2.7	19.5	38.7	1.7	1.5	35.9	32.3	39.8
Austria	690	30.7	6.3	26.8	33.9	2.0	0.2	30.7	21.7	37.8
Chinese Taipei	594	62.4	2.6	14.3	19.7	1.0	0.0	62.4	57.9	66.3
Colombia	670	8.8	6.4	10.8	65.2	5.9	2.8	8.8	7.8	9.7
Czech Republic	589	28.5	4.2	25.1	37.1	4.9	0.3	28.5	20.2	36.7
Denmark	505	44.1	4.3	18.3	30.5	2.0	0.8	44.1	41.6	46.7
El Salvador	590	9.7	4.0	12.5	61.3	10.6	1.9	9.7	7.4	12.0
England	632	42.7	3.0	19.4	32.5	2.3	0.0	42.7	38.6	46.4
Georgia	589	17.8	8.2	13.2	46.6	9.6	4.7	17.8	17.0	18.7
Germany	736	41.7	3.1	22.2	30.8	2.0	0.2	41.7	34.5	48.6
Hong Kong SAR	541	68.7	1.1	13.3	16.5	0.4	0.0	68.7	65.7	71.8
Hungary	586	25.2	4.4	16.5	52.4	0.9	0.4	25.2	22.5	28.1
Iran, Islamic Rep. of	536	5.2	7.4	10.2	61.6	14.6	0.9	5.2	4.6	5.9
Italy	641	26.7	4.1	26.0	39.6	3.2	0.3	26.7	24.7	28.7
Japan	638	49.0	1.6	17.7	31.0	0.7	0.0	49.0	44.8	53.3
Kazakhstan	571	48.3	4.9	15.9	25.0	5.9	0.0	48.3	47.5	49.2
Kuwait	520	2.6	2.6	3.6	69.8	18.1	3.4	2.6	1.8	3.4
Latvia	563	47.6	3.0	20.1	28.1	1.1	0.0	47.6	47.4	47.9
Lithuania	571	47.5	4.3	22.5	23.7	2.0	0.0	47.5	41.2	53.9
Morocco	551	9.1	6.8	2.9	59.5	17.8	3.8	9.1	7.7	10.6
Netherlands	481	47.2	4.2	18.2	30.1	0.0	0.4	47.2	40.6	53.4
New Zealand	720	32.3	2.8	18.7	44.5	1.3	0.3	32.3	27.8	36.9
Norway	588	25.5	6.0	16.8	48.0	2.7	0.9	25.5	21.2	30.6
Qatar	991	2.4	2.1	2.0	77.7	14.0	1.7	2.4	1.8	3.1
Russian Federation	644	48.0	3.2	21.9	24.6	2.2	0.1	48.0	47.2	48.7
Scotland	576	21.7	4.7	21.3	51.2	0.9	0.3	21.7	18.9	24.5
Singapore	714	66.7	1.2	12.7	19.1	0.2	0.0	66.7	65.8	67.6
Slovak Republic	714	26.2	6.8	24.6	39.9	2.3	0.3	26.2	21.9	30.4
Slovenia	622	23.0	4.9	27.0	41.6	3.0	0.5	23.0	19.7	25.9
Sweden	662	34.0	7.2	21.2	35.4	1.9	0.2	34.0	30.0	38.3
Tunisia	590	8.8	3.4	8.6	66.9	7.9	4.4	8.8	9.2	8.5
Ukraine	608	26.7	5.0	22.4	40.3	4.6	1.0	26.7	22.6	30.7
United States	1132	31.2	4.0	29.0	34.7	0.9	0.2	31.2	27.8	34.6
Yemen	816	1.4	1.6	0.2	79.6	14.7	2.4	1.4	1.9	1.0
International Avg.	637	30.5	4.3	16.4	42.7	5.1	1.0	30.5	27.4	33.6
Alberta, Canada	564	32.5	2.9	22.9	39.9	1.7	0.0	32.5	29.1	36.1
British Columbia, Canada	597	35.7	2.5	23.8	35.0	2.0	0.9	35.7	31.5	40.0
Dubai, UAE	433	22.4	4.7	16.1	51.0	4.8	1.1	22.4	20.0	24.6
Massachusetts, US	246	47.7	3.8	26.2	22.0	0.0	0.3	47.7	44.5	50.8
Minnesota, US	267	39.0	5.7	25.2	29.7	0.4	0.0	39.0	39.8	38.2
Ontario, Canada	504	35.5	4.0	21.5	36.5	1.6	0.9	35.5	27.0	43.4
Quebec, Canada	577	39.5	3.8	21.7	32.3	2.7	0.0	39.5	35.5	44.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031346C - M13\_01C)  
 Label: Trading Cards\_Max number of cards  
 Type: CR Key: -

COUNTRY	N	20	10	11	12	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	591	8.3	11.7	2.2	3.6	4.3	51.8	15.4	2.7	25.8	8.3	7.0	9.5
Armenia	581	20.3	10.9	1.3	13.7	14.5	27.6	11.6	0.0	46.3	20.3	18.8	21.7
Australia	581	25.1	24.1	2.4	4.6	0.0	41.0	1.1	1.7	56.2	25.1	22.8	27.7
Austria	690	21.4	41.3	5.2	5.0	0.2	24.0	2.5	0.2	73.0	21.4	14.2	27.0
Chinese Taipei	594	59.9	19.7	1.6	0.9	0.0	17.1	0.8	0.0	82.1	59.9	55.7	63.6
Colombia	670	5.2	16.8	2.7	0.8	1.6	63.1	6.5	3.3	25.5	5.2	4.2	6.1
Czech Republic	589	21.4	34.1	4.7	2.1	0.2	31.4	5.8	0.3	62.2	21.4	14.4	28.3
Denmark	505	35.5	29.6	4.5	2.7	1.0	23.9	1.9	1.0	72.2	35.5	32.7	38.5
El Salvador	590	5.3	14.8	4.7	1.6	3.7	57.2	11.0	1.9	26.2	5.3	3.4	7.1
England	632	29.7	33.7	4.3	2.3	0.1	27.0	2.7	0.0	70.1	29.7	25.9	33.2
Georgia	589	10.3	23.3	1.3	4.0	2.7	35.2	18.4	4.7	39.0	10.3	8.8	11.8
Germany	736	33.9	32.8	3.3	2.9	0.1	22.9	3.9	0.2	72.9	33.9	27.3	40.3
Hong Kong SAR	541	60.5	24.2	2.5	1.7	0.2	10.5	0.4	0.0	88.9	60.5	58.8	62.2
Hungary	586	18.1	27.8	3.5	4.9	0.0	42.3	3.0	0.4	54.3	18.1	16.8	19.5
Iran, Islamic Rep. of	536	3.1	17.1	3.9	0.8	1.0	58.2	15.1	1.0	24.8	3.1	3.6	2.7
Italy	641	18.0	40.0	2.8	4.0	1.4	28.9	4.6	0.4	64.7	18.0	16.8	19.2
Japan	638	43.8	28.7	4.5	1.4	0.0	20.7	1.0	0.0	78.3	43.8	41.5	46.1
Kazakhstan	571	20.7	22.3	2.0	21.2	1.9	24.6	7.4	0.0	66.2	20.7	21.2	20.2
Kuwait	520	1.2	5.3	0.4	0.4	7.7	62.2	19.0	3.8	7.2	1.2	0.9	1.5
Latvia	563	26.3	27.6	3.6	13.3	2.1	25.3	1.8	0.0	70.8	26.3	22.6	30.4
Lithuania	571	26.8	31.5	3.9	16.0	0.2	19.4	2.2	0.0	78.2	26.8	22.4	31.3
Morocco	551	4.5	8.8	1.3	1.7	12.5	45.5	21.9	3.8	16.3	4.5	4.8	4.2
Netherlands	481	37.9	32.5	4.2	4.7	1.4	18.8	0.1	0.4	79.3	37.9	33.1	42.3
New Zealand	720	20.5	27.7	5.0	2.7	0.7	42.3	0.8	0.3	55.9	20.5	20.3	20.8
Norway	588	22.8	31.4	6.9	1.4	0.0	33.9	2.7	0.9	62.5	22.8	17.4	29.1
Qatar	991	0.7	5.4	1.9	0.3	0.1	72.4	17.3	1.8	8.4	0.7	0.4	1.0
Russian Federation	644	31.0	33.5	3.2	10.0	0.1	18.4	3.6	0.3	77.7	31.0	28.9	32.9
Scotland	576	17.6	29.3	8.1	2.6	0.1	40.1	2.0	0.3	57.6	17.6	14.8	20.4
Singapore	714	46.6	21.1	2.5	3.0	0.1	26.4	0.2	0.0	73.2	46.6	47.8	45.4
Slovak Republic	714	17.7	35.7	4.5	2.9	0.6	34.4	3.9	0.3	60.8	17.7	15.3	20.1
Slovenia	622	14.8	37.0	3.0	4.1	0.0	36.7	3.8	0.5	59.0	14.8	13.5	16.0
Sweden	662	27.8	38.7	5.1	3.0	0.1	22.1	2.9	0.2	74.7	27.8	23.5	32.5
Tunisia	590	5.1	9.9	2.8	3.0	0.5	64.8	9.5	4.4	20.8	5.1	5.5	4.7
Ukraine	608	18.3	33.1	4.4	7.8	0.7	28.4	6.3	1.0	63.5	18.3	16.6	19.9
United States	1132	22.2	37.1	4.8	2.6	0.2	31.8	1.1	0.2	66.7	22.2	19.1	25.3
Yemen	816	0.0	1.3	0.2	0.5	1.8	77.1	16.6	2.6	2.0	0.0	0.0	0.0
International Avg.	637	21.7	25.0	3.4	4.4	1.7	36.3	6.4	1.1	54.5	21.7	19.5	24.0
Alberta, Canada	564	22.7	33.6	3.1	1.3	0.0	37.3	2.0	0.0	60.7	22.7	17.5	28.0
British Columbia, Canada	597	28.1	31.2	3.9	1.7	0.2	31.5	2.3	1.0	65.0	28.1	24.4	31.9
Dubai, UAE	433	10.9	26.9	3.9	4.5	0.4	46.2	6.1	1.1	46.2	10.9	10.8	11.0
Massachusetts, US	246	32.8	37.3	5.1	2.1	0.0	22.4	0.0	0.3	77.3	32.8	28.1	37.4
Minnesota, US	267	23.0	37.0	6.8	1.2	0.0	31.6	0.4	0.0	68.0	23.0	25.1	21.0
Ontario, Canada	504	23.5	33.7	4.8	1.9	0.1	33.9	1.3	0.9	63.9	23.5	18.1	28.6
Quebec, Canada	577	32.1	27.5	4.7	1.7	1.6	29.5	2.9	0.0	66.0	32.1	24.8	41.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031379 - M13\_02)  
 Label: Trading Cards\_Trading sports cards  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	590	10.5	3.4	11.2	55.4	16.6	2.9	10.5	8.4	12.5
Armenia	579	36.5	10.5	4.8	41.7	6.4	0.0	36.5	36.3	36.7
Australia	581	27.2	6.5	11.2	48.5	4.8	1.7	27.2	22.5	32.5
Austria	690	19.8	15.6	10.1	47.2	7.1	0.2	19.8	13.5	24.6
Chinese Taipei	594	44.9	14.6	7.3	32.0	1.2	0.0	44.9	42.7	46.8
Colombia	670	8.9	2.6	8.5	68.9	7.7	3.3	8.9	4.3	12.8
Czech Republic	589	19.3	22.8	5.6	43.0	9.0	0.3	19.3	15.2	23.3
Denmark	505	37.8	8.1	12.1	33.6	7.3	1.0	37.8	34.8	41.2
El Salvador	590	9.2	4.9	10.8	61.6	11.1	2.5	9.2	8.6	9.8
England	632	30.8	11.3	8.8	45.4	3.6	0.1	30.8	30.2	31.3
Georgia	589	10.3	10.6	9.9	50.2	13.8	5.1	10.3	7.6	13.0
Germany	736	30.0	12.7	10.9	40.8	5.2	0.3	30.0	23.2	36.6
Hong Kong SAR	541	52.2	13.2	6.0	27.2	1.5	0.0	52.2	47.2	57.3
Hungary	586	15.3	14.8	7.5	57.9	3.5	1.1	15.3	12.8	18.0
Iran, Islamic Rep. of	536	6.8	10.4	7.7	56.6	16.8	1.6	6.8	7.2	6.4
Italy	641	24.4	11.4	9.9	46.1	7.8	0.5	24.4	21.5	27.2
Japan	637	34.7	16.4	6.3	41.6	1.0	0.0	34.7	31.8	37.6
Kazakhstan	571	29.2	20.9	5.2	40.9	3.8	0.0	29.2	31.5	26.8
Kuwait	520	6.2	3.7	1.2	63.7	21.2	3.9	6.2	4.8	7.7
Latvia	563	27.0	26.0	6.7	38.0	2.3	0.0	27.0	27.3	26.7
Lithuania	571	33.6	16.1	12.2	35.0	3.1	0.0	33.6	31.7	35.6
Morocco	546	7.9	4.8	4.8	54.0	24.5	4.0	7.9	8.9	7.0
Netherlands	481	39.9	10.2	10.4	37.4	1.7	0.4	39.9	31.9	47.4
New Zealand	720	23.2	9.5	12.2	51.6	3.1	0.3	23.2	20.0	26.6
Norway	588	19.9	9.9	9.1	54.1	6.1	0.9	19.9	18.7	21.2
Qatar	991	4.7	3.9	2.3	70.3	16.9	1.8	4.7	4.0	5.4
Russian Federation	644	31.9	27.6	6.9	28.4	4.9	0.3	31.9	28.3	35.3
Scotland	576	17.5	11.0	8.4	57.6	5.2	0.3	17.5	13.3	21.8
Singapore	712	53.6	14.9	4.7	26.6	0.2	0.0	53.6	51.6	55.5
Slovak Republic	714	17.3	15.5	10.0	50.5	6.2	0.5	17.3	14.7	19.9
Slovenia	622	15.9	19.1	9.0	51.1	4.4	0.5	15.9	14.2	17.4
Sweden	662	28.6	10.0	10.1	43.2	7.8	0.2	28.6	25.1	32.4
Tunisia	590	7.5	5.7	6.2	66.5	9.4	4.8	7.5	8.2	6.9
Ukraine	608	18.5	21.5	7.9	45.9	5.1	1.0	18.5	17.1	20.0
United States	1132	21.7	15.4	14.4	46.0	2.2	0.2	21.7	19.9	23.6
Yemen	816	2.2	2.3	0.6	70.7	21.2	3.0	2.2	1.7	2.7
International Avg.	636	22.9	12.2	8.1	48.0	7.6	1.2	22.9	20.6	25.2
Alberta, Canada	564	22.7	10.3	14.9	48.7	3.4	0.0	22.7	17.9	27.7
British Columbia, Canada	597	24.9	10.8	11.0	48.5	3.5	1.3	24.9	22.8	27.0
Dubai, UAE	433	16.5	8.7	7.3	56.2	9.9	1.3	16.5	15.9	17.1
Massachusetts, US	246	34.9	17.7	8.6	38.0	0.5	0.3	34.9	32.4	37.4
Minnesota, US	267	26.3	15.6	14.0	43.0	1.1	0.0	26.3	22.2	30.1
Ontario, Canada	504	25.4	7.2	13.3	52.0	1.2	0.9	25.4	23.0	27.6
Quebec, Canada	577	30.4	10.5	9.9	45.6	3.6	0.1	30.4	27.1	34.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031380 - M13\_03)  
 Label: Trading Cards\_Trading cartoon cards  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	6.7	4.5	4.9	3.3	59.9	16.5	4.2	6.7	6.0	7.3
Armenia	580	30.3	6.2	4.7	4.2	46.8	7.7	0.0	30.3	29.5	31.1
Australia	581	18.8	5.4	16.1	10.2	43.4	3.9	2.0	18.8	14.2	23.8
Austria	690	15.5	8.3	8.5	12.4	43.7	11.4	0.2	15.5	9.9	19.8
Chinese Taipei	594	38.0	10.7	19.0	4.7	26.0	1.6	0.0	38.0	31.9	43.3
Colombia	670	3.3	4.0	5.2	6.2	68.4	8.2	4.6	3.3	3.4	3.2
Czech Republic	589	15.3	11.3	7.3	10.3	44.4	10.9	0.7	15.3	13.3	17.2
Denmark	505	23.7	6.1	12.7	7.5	37.9	10.2	1.8	23.7	19.5	28.4
El Salvador	590	3.9	5.5	4.8	6.4	64.7	11.4	3.4	3.9	3.4	4.4
England	632	18.6	5.7	16.4	11.2	41.8	6.2	0.1	18.6	14.0	22.8
Georgia	589	3.9	7.6	5.5	7.1	52.3	18.2	5.5	3.9	3.2	4.5
Germany	736	22.3	7.5	12.0	9.6	38.4	9.5	0.6	22.3	15.4	29.1
Hong Kong SAR	541	39.5	9.3	17.0	5.1	26.6	2.2	0.3	39.5	38.1	40.9
Hungary	586	13.8	8.1	8.0	6.5	56.0	6.2	1.4	13.8	11.3	16.6
Iran, Islamic Rep. of	536	4.6	6.0	1.8	6.3	57.8	21.2	2.3	4.6	4.5	4.7
Italy	641	13.9	3.6	11.3	12.1	46.4	11.8	0.9	13.9	10.8	16.9
Japan	637	29.5	9.0	13.6	8.0	36.9	3.0	0.1	29.5	23.7	35.3
Kazakhstan	571	24.7	11.3	10.0	6.8	42.2	5.0	0.0	24.7	26.0	23.4
Kuwait	520	3.0	6.4	1.6	1.8	61.7	21.0	4.6	3.0	3.6	2.4
Latvia	563	28.2	8.9	12.7	10.5	33.6	6.0	0.0	28.2	25.6	31.0
Lithuania	571	22.5	3.9	17.2	14.4	36.1	5.9	0.0	22.5	17.3	27.9
Morocco	546	6.0	4.8	2.3	2.4	56.3	23.3	4.9	6.0	5.5	6.5
Netherlands	481	24.5	10.1	15.5	10.3	36.6	2.5	0.4	24.5	21.3	27.5
New Zealand	720	15.1	7.2	14.0	11.0	48.7	3.4	0.5	15.1	12.6	17.6
Norway	588	15.9	7.6	7.4	7.6	51.9	8.3	1.3	15.9	10.8	21.7
Qatar	991	1.8	3.7	1.6	0.8	72.6	17.1	2.3	1.8	2.0	1.6
Russian Federation	644	35.2	8.8	7.8	7.6	31.7	8.3	0.6	35.2	34.4	35.9
Scotland	576	12.8	5.7	8.4	10.9	53.6	7.6	1.0	12.8	10.7	15.0
Singapore	712	41.1	4.2	20.4	7.8	26.0	0.6	0.0	41.1	38.8	43.2
Slovak Republic	714	13.1	6.6	7.6	12.2	50.2	9.2	1.1	13.1	11.3	14.9
Slovenia	622	13.3	9.0	6.2	11.6	52.5	6.1	1.4	13.3	10.3	15.9
Sweden	662	19.1	4.4	8.6	9.7	45.4	12.6	0.2	19.1	14.1	24.5
Tunisia	590	4.4	4.7	3.7	4.5	66.4	10.4	5.8	4.4	4.6	4.3
Ukraine	608	12.1	12.6	8.8	9.7	47.3	8.4	1.1	12.1	9.6	14.6
United States	1132	17.4	7.6	13.1	12.9	46.1	2.6	0.2	17.4	15.1	19.6
Yemen	816	0.7	2.6	0.3	0.6	70.8	21.2	3.7	0.7	1.0	0.5
International Avg.	637	17.0	6.9	9.3	7.9	47.8	9.4	1.6	17.0	14.6	19.4
Alberta, Canada	564	18.1	6.8	14.9	13.1	42.9	4.0	0.3	18.1	14.6	21.8
British Columbia, Canada	597	15.9	8.2	12.5	8.2	48.4	5.1	1.7	15.9	10.1	21.9
Dubai, UAE	433	12.3	4.5	7.9	8.8	54.1	10.6	1.7	12.3	8.6	15.6
Massachusetts, US	246	31.6	8.5	15.7	8.6	33.1	2.1	0.3	31.6	29.7	33.4
Minnesota, US	267	20.2	7.8	10.3	17.3	42.5	1.9	0.0	20.2	16.4	23.8
Ontario, Canada	504	15.0	6.6	12.4	12.2	48.7	3.8	1.3	15.0	11.1	18.5
Quebec, Canada	577	24.3	6.0	15.5	7.8	39.4	6.4	0.5	24.3	19.7	30.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M031313 - M13\_05)  
 Label: Total number of people on a ship  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	591	48.2	3.0	33.0	10.8	5.0	48.2	51.7	45.0
Armenia	580	82.9	3.7	10.6	2.7	0.1	82.9	82.1	83.7
Australia	581	68.8	6.9	20.8	1.5	2.0	68.8	74.1	63.0
Austria	690	76.7	9.8	11.2	1.7	0.6	76.7	74.5	78.4
Chinese Taipei	594	93.1	2.8	4.1	0.0	0.0	93.1	92.3	93.8
Colombia	670	57.8	3.7	28.7	4.2	5.6	57.8	61.3	54.9
Czech Republic	589	75.1	7.7	14.8	1.4	0.9	75.1	77.5	72.8
Denmark	505	75.4	6.9	11.1	3.7	2.9	75.4	76.0	74.8
El Salvador	590	46.2	4.6	36.1	9.1	4.0	46.2	47.3	45.1
England	632	73.3	5.4	18.9	1.9	0.4	73.3	76.9	70.1
Georgia	589	70.1	2.8	16.7	4.1	6.3	70.1	69.9	70.2
Germany	736	77.8	6.6	12.7	1.5	1.4	77.8	77.9	77.7
Hong Kong SAR	541	92.4	3.4	3.8	0.2	0.3	92.4	93.4	91.3
Hungary	586	77.4	5.2	14.3	1.1	2.0	77.4	79.0	75.6
Iran, Islamic Rep. of	536	62.8	2.6	27.0	4.4	3.2	62.8	68.1	57.4
Italy	641	79.4	7.0	10.2	2.0	1.3	79.4	83.3	75.6
Japan	638	90.5	4.9	3.8	0.3	0.5	90.5	89.2	91.9
Kazakhstan	570	80.8	3.0	14.6	1.5	0.2	80.8	86.4	74.7
Kuwait	520	32.9	1.6	41.8	18.9	4.9	32.9	38.0	27.0
Latvia	563	81.9	6.7	11.2	0.2	0.0	81.9	80.5	83.4
Lithuania	571	83.3	4.5	11.1	0.9	0.3	83.3	89.3	77.1
Morocco	545	33.2	2.0	41.2	18.6	5.0	33.2	33.5	32.9
Netherlands	481	75.7	5.2	17.0	1.7	0.4	75.7	80.8	70.9
New Zealand	720	56.6	5.0	35.4	1.8	1.1	56.6	58.3	54.9
Norway	588	62.6	9.9	22.3	2.3	3.0	62.6	67.4	56.9
Qatar	991	22.4	1.3	57.9	15.8	2.7	22.4	25.8	18.7
Russian Federation	644	82.1	5.5	11.1	0.4	0.8	82.1	85.3	79.1
Scotland	576	59.9	6.9	28.4	3.4	1.5	59.9	59.7	60.0
Singapore	714	91.2	1.5	7.0	0.2	0.1	91.2	93.2	89.4
Slovak Republic	714	79.5	3.2	13.3	2.3	1.8	79.5	81.8	77.1
Slovenia	622	75.3	4.1	16.6	1.9	2.0	75.3	76.2	74.6
Sweden	662	73.8	7.2	15.7	2.5	0.8	73.8	75.9	71.6
Tunisia	590	46.4	3.4	36.4	6.0	7.8	46.4	49.4	43.7
Ukraine	608	73.2	5.8	17.4	2.1	1.5	73.2	78.8	67.6
United States	1132	82.7	4.5	9.7	2.6	0.4	82.7	85.0	80.5
Yemen	817	8.7	0.6	66.9	19.9	3.9	8.7	9.9	7.8
International Avg.	637	68.1	4.7	20.9	4.3	2.1	68.1	70.3	65.8
Alberta, Canada	564	75.0	7.6	14.5	2.0	0.9	75.0	77.3	72.7
British Columbia, Canada	597	78.3	5.5	11.7	1.9	2.5	78.3	80.0	76.6
Dubai, UAE	433	67.2	3.9	22.4	4.4	2.1	67.2	70.7	64.1
Massachusetts, US	246	86.9	6.1	6.2	0.5	0.3	86.9	88.4	85.4
Minnesota, US	267	81.7	4.4	11.6	1.8	0.4	81.7	84.2	79.4
Ontario, Canada	504	73.0	5.1	18.9	1.6	1.5	73.0	73.1	72.9
Quebec, Canada	577	80.9	6.6	10.8	1.1	0.7	80.9	83.4	77.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031083 - M13\_06)  
 Label: 6 pieces of cardboard to make shape  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	525	37.3	17.0	9.8	9.7	37.3	19.8	6.4	37.6	37.0
Armenia	566	60.1	14.1	7.0	3.8	60.1	14.7	0.4	61.6	58.7
Australia	581	77.1	9.7	2.5	3.3	77.1	5.0	2.3	79.6	74.4
Austria	690	67.7	12.6	2.7	2.9	67.7	12.8	1.2	66.0	69.1
Chinese Taipei	594	88.5	7.4	0.6	0.4	88.5	3.0	0.0	91.7	85.6
Colombia	670	48.5	16.5	11.2	7.3	48.5	10.1	6.4	50.7	46.7
Czech Republic	590	67.9	11.0	5.1	4.6	67.9	10.5	0.9	70.0	65.8
Denmark	491	75.5	9.1	4.3	3.8	75.5	4.1	3.2	81.0	69.3
El Salvador	584	37.3	24.8	12.1	10.3	37.3	9.9	5.6	34.7	39.8
England	632	78.7	7.0	2.9	5.2	78.7	5.9	0.4	80.2	77.3
Georgia	589	48.5	24.1	9.4	4.7	48.5	6.4	7.0	49.4	47.6
Germany	736	67.0	10.3	2.1	1.5	67.0	17.7	1.4	68.4	65.6
Hong Kong SAR	541	91.3	3.1	2.2	1.9	91.3	1.3	0.3	92.1	90.4
Hungary	586	71.6	14.5	4.0	1.6	71.6	6.3	2.0	73.9	69.1
Iran, Islamic Rep. of	536	45.7	25.5	11.0	8.1	45.7	6.3	3.4	46.2	45.1
Italy	611	74.9	9.2	5.4	5.7	74.9	3.0	1.8	74.5	75.4
Japan	638	84.5	4.9	5.3	1.5	84.5	3.3	0.5	87.1	81.9
Kazakhstan	571	75.3	13.0	8.8	2.1	75.3	0.6	0.2	81.9	68.3
Kuwait	520	30.6	27.8	9.1	9.0	30.6	17.2	6.2	34.4	26.3
Latvia	563	69.7	11.0	9.0	4.7	69.7	5.6	0.0	73.3	65.8
Lithuania	571	71.6	15.4	3.6	2.2	71.6	7.0	0.3	75.8	67.3
Morocco	510	37.4	15.1	10.1	14.1	37.4	16.8	6.5	39.8	35.2
Netherlands	481	67.2	14.5	5.5	5.1	67.2	7.3	0.4	67.7	66.6
New Zealand	720	71.7	7.9	4.8	4.8	71.7	9.7	1.1	72.8	70.7
Norway	588	62.5	10.6	6.5	11.1	62.5	6.2	3.2	61.9	63.1
Qatar	991	27.6	26.7	16.1	11.1	27.6	14.8	3.7	25.6	29.8
Russian Federation	644	84.0	4.7	2.9	4.0	84.0	3.6	0.8	85.8	82.2
Scotland	576	68.1	9.4	4.3	6.2	68.1	10.6	1.5	71.5	64.7
Singapore	714	84.3	6.5	4.7	3.9	84.3	0.6	0.1	87.8	81.0
Slovak Republic	714	69.3	12.6	3.3	4.4	69.3	8.6	1.9	71.9	66.6
Slovenia	623	65.9	13.8	5.2	7.8	65.9	4.5	2.7	72.3	60.5
Sweden	662	75.6	8.1	4.2	5.7	75.6	4.7	1.7	79.2	71.7
Tunisia	590	28.5	11.5	8.0	11.2	28.5	31.7	9.0	31.6	25.6
Ukraine	608	67.0	13.1	8.5	7.5	67.0	2.0	1.9	67.7	66.2
United States	1132	77.4	11.3	4.3	4.2	77.4	2.4	0.4	77.9	76.9
Yemen	815	22.1	20.6	13.1	16.1	22.1	22.1	6.0	21.6	22.5
International Avg.	632	63.3	13.2	6.4	5.9	63.3	8.8	2.5	65.1	61.4
Alberta, Canada	564	71.8	13.9	3.1	3.0	71.8	7.3	0.9	68.6	75.1
British Columbia, Canada	597	73.1	10.4	3.6	3.7	73.1	6.4	2.8	74.3	72.0
Dubai, UAE	433	57.3	15.6	11.3	5.2	57.3	8.6	2.1	61.2	53.7
Massachusetts, US	246	85.5	7.0	3.1	2.1	85.5	1.9	0.3	83.4	87.5
Minnesota, US	267	80.5	8.6	4.3	4.8	80.5	1.0	0.9	80.6	80.4
Ontario, Canada	504	81.4	6.6	2.5	2.7	81.4	5.3	1.5	79.9	82.7
Quebec, Canada	577	68.8	11.5	2.6	5.6	68.8	10.3	1.2	68.6	69.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M031071 - M13\_07)  
 Label: Position of shape after a half turn  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	18.0	5.6	18.0	15.4	39.1	12.6	9.3	17.1	19.0
Armenia	577	34.6	9.3	34.6	7.2	41.4	2.9	4.7	36.8	32.6
Australia	581	42.2	15.4	42.2	22.0	14.7	2.0	3.6	36.0	48.9
Austria	690	35.6	13.0	35.6	16.0	25.2	8.7	1.6	29.3	40.5
Chinese Taipei	594	53.3	11.3	53.3	13.9	18.2	3.2	0.1	49.4	56.8
Colombia	670	16.9	7.5	16.9	14.5	44.2	6.5	10.3	18.2	15.8
Czech Republic	590	34.8	13.7	34.8	17.0	26.2	6.7	1.6	25.1	44.4
Denmark	501	49.8	13.5	49.8	15.0	11.8	5.6	4.3	46.4	53.5
El Salvador	588	21.4	10.3	21.4	12.6	40.6	7.4	7.7	23.1	19.8
England	632	60.0	12.2	60.0	12.2	12.8	1.8	1.0	59.6	60.4
Georgia	589	26.2	7.3	26.2	13.3	34.9	10.6	7.5	23.3	29.1
Germany	736	38.9	11.1	38.9	15.3	19.3	12.8	2.6	35.4	42.3
Hong Kong SAR	541	67.8	11.4	67.8	12.1	7.6	0.8	0.3	71.1	64.4
Hungary	586	36.0	15.0	36.0	15.6	24.8	6.3	2.4	36.1	35.8
Iran, Islamic Rep. of	536	24.1	10.3	24.1	10.4	44.8	5.6	4.9	23.2	25.0
Italy	637	46.0	11.3	46.0	17.5	16.8	5.4	3.1	46.2	45.8
Japan	638	61.0	11.2	61.0	10.9	14.1	2.0	0.8	57.3	64.8
Kazakhstan	571	55.1	11.0	55.1	14.6	18.1	0.6	0.5	61.4	48.4
Kuwait	520	17.2	13.0	17.2	11.7	37.3	12.4	8.5	15.8	18.7
Latvia	563	40.1	10.9	40.1	18.8	25.3	4.5	0.4	33.7	47.0
Lithuania	571	40.4	17.2	40.4	20.3	14.8	6.8	0.5	35.2	45.7
Morocco	535	16.6	10.0	16.6	14.6	34.0	16.3	8.5	21.3	12.4
Netherlands	481	46.9	15.7	46.9	19.7	13.3	2.8	1.6	41.0	52.4
New Zealand	720	45.1	17.3	45.1	17.9	14.5	3.1	2.1	43.0	47.3
Norway	588	32.3	13.0	32.3	17.4	26.0	6.6	4.7	29.3	35.7
Qatar	991	15.8	10.4	15.8	14.0	42.8	12.2	4.9	15.4	16.2
Russian Federation	644	47.3	11.6	47.3	16.2	19.5	3.6	1.7	49.1	45.7
Scotland	576	42.7	12.5	42.7	14.2	21.5	6.9	2.2	40.5	44.9
Singapore	714	65.9	12.4	65.9	13.1	8.1	0.2	0.4	61.8	69.8
Slovak Republic	714	39.0	10.6	39.0	18.2	23.5	5.0	3.7	35.8	42.1
Slovenia	623	30.9	19.0	30.9	17.0	26.8	3.4	2.9	28.2	33.1
Sweden	662	43.0	15.8	43.0	12.5	21.0	5.8	2.0	39.2	47.2
Tunisia	591	13.7	9.0	13.7	11.5	24.3	23.7	17.8	15.4	12.1
Ukraine	608	41.0	17.3	41.0	15.5	19.6	4.5	2.1	41.1	40.8
United States	1132	46.3	18.4	46.3	18.7	13.7	1.8	1.1	42.6	49.9
Yemen	816	12.7	9.3	12.7	19.2	31.5	17.9	9.4	10.2	14.8
International Avg.	635	37.7	12.3	37.7	15.2	24.2	6.6	3.9	35.9	39.5
Alberta, Canada	564	36.7	11.3	36.7	21.6	26.5	2.7	1.2	29.3	44.4
British Columbia, Canada	597	39.1	13.7	39.1	20.5	17.7	4.7	4.3	36.7	41.6
Dubai, UAE	433	34.0	12.0	34.0	19.1	26.9	5.7	2.3	36.8	31.5
Massachusetts, US	246	58.6	14.1	58.6	14.9	10.4	1.0	1.0	54.5	62.7
Minnesota, US	267	57.8	14.1	57.8	13.4	12.0	1.6	1.1	54.3	61.0
Ontario, Canada	504	45.8	16.6	45.8	15.5	18.6	2.1	1.5	42.2	49.0
Quebec, Canada	577	41.1	9.7	41.1	16.9	25.4	4.6	2.4	36.3	46.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Reasoning (M031185 - M13\_08)  
 Label: Distance between towns from map info  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	567	34.7	5.1	15.5	27.9	34.7	5.7	11.2	32.4	37.0
Armenia	579	57.2	6.9	9.6	14.4	57.2	6.4	5.4	57.1	57.3
Australia	581	50.9	4.6	10.5	26.1	50.9	3.9	4.0	45.3	57.0
Austria	690	60.2	3.8	12.9	17.4	60.2	3.6	2.2	56.0	63.4
Chinese Taipei	594	83.3	1.5	5.1	8.1	83.3	1.4	0.6	82.4	84.2
Colombia	670	33.2	4.0	18.1	26.2	33.2	6.6	11.9	35.4	31.4
Czech Republic	590	57.0	7.5	12.7	18.1	57.0	2.9	1.9	48.5	65.4
Denmark	505	54.9	5.5	12.7	17.3	54.9	3.9	5.8	51.5	58.5
El Salvador	588	32.6	5.4	20.0	27.1	32.6	5.6	9.2	32.3	32.9
England	632	50.2	5.6	13.3	26.4	50.2	3.2	1.3	49.6	50.8
Georgia	589	54.3	7.3	9.3	16.7	54.3	4.2	8.2	51.8	56.7
Germany	736	64.5	2.0	7.5	19.8	64.5	2.4	3.9	57.2	71.5
Hong Kong SAR	541	75.3	4.1	6.8	12.8	75.3	0.6	0.3	75.7	74.9
Hungary	586	60.0	3.3	7.0	24.1	60.0	2.3	3.3	58.8	61.3
Iran, Islamic Rep. of	536	42.5	7.0	12.9	28.1	42.5	4.3	5.3	44.4	40.5
Italy	640	53.4	6.3	11.3	21.7	53.4	3.0	4.3	50.3	56.5
Japan	638	65.6	4.4	9.4	19.4	65.6	0.1	1.1	60.3	71.0
Kazakhstan	571	80.9	6.0	2.3	10.1	80.9	0.1	0.6	83.6	78.1
Kuwait	520	26.0	4.1	18.6	31.7	26.0	8.8	10.7	27.2	24.6
Latvia	563	76.2	3.2	5.4	13.9	76.2	0.3	1.1	75.7	76.8
Lithuania	571	75.8	6.5	7.9	8.6	75.8	0.7	0.6	71.4	80.3
Morocco	538	28.2	4.3	16.5	32.2	28.2	9.0	9.9	30.9	25.9
Netherlands	481	64.1	4.2	11.3	16.9	64.1	0.8	2.7	62.1	66.0
New Zealand	720	41.9	6.9	17.2	28.3	41.9	3.3	2.4	39.2	44.8
Norway	588	41.7	3.2	15.6	29.4	41.7	3.6	6.6	36.0	48.3
Qatar	991	25.4	6.9	23.5	30.7	25.4	7.2	6.2	26.2	24.6
Russian Federation	644	79.8	3.8	3.1	8.9	79.8	2.1	2.3	82.1	77.7
Scotland	576	38.3	6.2	16.5	32.7	38.3	3.9	2.4	31.3	45.5
Singapore	714	67.6	6.9	7.3	17.4	67.6	0.3	0.6	67.0	68.2
Slovak Republic	714	59.9	4.6	14.9	14.6	59.9	2.1	3.8	59.5	60.3
Slovenia	623	49.5	5.5	14.5	22.8	49.5	3.8	3.8	46.7	51.9
Sweden	662	55.0	5.4	14.5	20.5	55.0	0.7	4.0	52.4	57.8
Tunisia	591	22.9	2.6	18.4	29.2	22.9	6.7	20.3	25.1	20.9
Ukraine	608	64.3	9.0	7.9	13.2	64.3	2.6	3.0	65.0	63.6
United States	1132	53.4	6.4	13.0	22.9	53.4	1.9	2.5	51.7	55.2
Yemen	816	26.9	5.2	22.5	28.4	26.9	6.2	10.8	29.0	25.1
International Avg.	636	53.0	5.1	12.4	21.2	53.0	3.4	4.8	51.4	54.6
Alberta, Canada	564	45.0	5.5	16.6	27.6	45.0	3.7	1.7	37.3	52.9
British Columbia, Canada	597	48.3	6.6	14.3	21.6	48.3	3.8	5.5	48.0	48.5
Dubai, UAE	433	41.3	7.1	13.3	28.5	41.3	6.1	3.7	37.7	44.6
Massachusetts, US	246	66.6	4.9	8.4	16.1	66.6	2.8	1.3	58.9	74.2
Minnesota, US	267	61.3	3.6	10.2	20.7	61.3	2.2	2.0	62.2	60.5
Ontario, Canada	504	51.4	5.1	11.7	25.9	51.4	3.4	2.5	46.6	55.8
Quebec, Canada	577	50.2	5.7	9.0	28.5	50.2	3.7	3.0	45.1	56.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041004 - M14\_01)  
 Label: Convert words to numerals  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	567	44.0	14.2	44.0	10.8	21.6	7.5	1.8	44.1	44.0
Armenia	579	84.2	5.2	84.2	3.6	5.6	1.3	0.0	89.8	79.5
Australia	574	87.6	4.1	87.6	3.8	4.2	0.1	0.3	87.6	87.5
Austria	685	84.0	4.3	84.0	2.9	6.5	2.1	0.2	86.8	81.8
Chinese Taipei	591	96.7	0.0	96.7	2.2	0.5	0.6	0.0	98.1	95.5
Colombia	657	57.8	14.9	57.8	3.7	13.0	8.1	2.5	59.0	56.7
Czech Republic	593	93.1	3.8	93.1	2.1	0.2	0.7	0.0	92.7	93.6
Denmark	492	76.5	5.7	76.5	3.5	10.8	3.5	0.0	71.4	83.2
El Salvador	592	67.0	9.9	67.0	8.4	10.5	3.1	1.1	63.3	70.7
England	618	90.0	3.7	90.0	2.2	3.4	0.6	0.0	92.5	88.1
Georgia	579	82.3	4.8	82.3	4.0	7.9	0.5	0.6	79.9	84.5
Germany	750	88.7	3.5	88.7	2.0	3.8	2.1	0.0	89.4	87.9
Hong Kong SAR	544	94.3	0.4	94.3	2.4	2.9	0.1	0.0	93.9	94.7
Hungary	577	91.6	1.9	91.6	2.6	2.4	1.1	0.4	94.1	88.3
Iran, Islamic Rep. of	553	58.9	19.0	58.9	7.6	11.8	2.4	0.4	62.0	55.7
Italy	634	90.0	2.9	90.0	2.4	4.0	0.4	0.3	89.0	91.2
Japan	643	94.9	0.6	94.9	2.2	1.4	0.6	0.3	98.1	92.1
Kazakhstan	566	95.7	1.0	95.7	1.7	1.5	0.1	0.0	94.5	97.3
Kuwait	533	59.6	16.3	59.6	11.6	9.4	2.4	0.6	58.7	60.7
Latvia	557	89.6	4.0	89.6	2.2	4.3	0.0	0.0	89.2	90.0
Lithuania	562	91.8	3.2	91.8	2.4	2.0	0.6	0.0	93.5	90.0
Morocco	542	40.1	16.0	40.1	15.8	19.6	7.9	0.6	36.7	43.6
Netherlands	475	92.0	1.0	92.0	2.2	4.8	0.0	0.0	90.1	93.7
New Zealand	708	80.0	9.0	80.0	5.2	5.0	0.8	0.0	78.7	81.3
Norway	577	85.7	4.5	85.7	3.6	4.7	1.2	0.3	84.9	86.4
Qatar	984	50.3	21.3	50.3	10.1	15.5	2.4	0.4	55.0	45.3
Russian Federation	642	96.0	0.4	96.0	2.3	1.3	0.1	0.0	97.5	94.6
Scotland	586	81.2	6.3	81.2	3.8	7.5	1.1	0.0	78.9	83.6
Singapore	711	92.5	1.1	92.5	4.6	1.6	0.2	0.0	92.2	92.8
Slovak Republic	716	91.2	2.9	91.2	1.7	2.9	0.3	0.9	91.9	90.5
Slovenia	627	86.5	3.1	86.5	4.6	4.8	0.7	0.2	85.5	87.4
Sweden	663	87.8	3.3	87.8	5.9	2.3	0.4	0.3	87.7	87.8
Tunisia	592	52.4	9.6	52.4	12.3	10.9	11.8	3.0	52.4	52.5
Ukraine	607	90.3	2.2	90.3	2.9	3.7	0.9	0.0	91.4	89.2
United States	1116	94.2	1.1	94.2	1.5	2.2	0.9	0.1	93.5	94.8
Yemen	828	29.1	20.6	29.1	17.1	23.1	8.7	1.5	22.9	33.9
International Avg.	634	79.7	6.3	79.7	4.9	6.6	2.1	0.4	79.6	79.7
Alberta, Canada	551	83.4	4.3	83.4	3.8	6.6	1.5	0.4	76.8	88.8
British Columbia, Canada	602	87.3	4.2	87.3	2.4	5.2	0.7	0.2	84.6	89.8
Dubai, UAE	429	81.1	8.3	81.1	3.3	4.0	2.9	0.3	83.4	78.9
Massachusetts, US	248	97.0	1.2	97.0	0.5	0.0	0.7	0.6	96.3	97.7
Minnesota, US	266	95.0	0.5	95.0	1.2	2.2	1.2	0.0	95.1	94.9
Ontario, Canada	496	80.3	8.5	80.3	2.2	8.7	0.3	0.0	77.7	82.9
Quebec, Canada	567	88.0	3.2	88.0	3.9	3.8	1.1	0.0	83.1	94.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041023 - M14\_02)  
 Label: How many trees Jan plant altogether  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	588	55.7	24.2	6.0	10.5	55.7	1.7	1.8	55.3	56.2
Armenia	581	75.6	18.0	3.5	0.8	75.6	2.0	0.0	76.9	74.6
Australia	574	84.5	10.2	1.7	2.8	84.5	0.6	0.3	82.5	86.7
Austria	685	91.8	6.6	1.0	0.0	91.8	0.4	0.2	94.0	90.0
Chinese Taipei	591	96.5	2.6	0.2	0.0	96.5	0.8	0.0	97.2	95.8
Colombia	657	42.0	42.6	5.1	2.6	42.0	3.0	4.7	38.8	44.9
Czech Republic	593	90.4	6.1	1.1	1.1	90.4	1.3	0.0	89.3	91.5
Denmark	492	82.3	12.1	2.4	2.4	82.3	0.8	0.0	82.3	82.3
El Salvador	592	40.0	38.5	9.0	7.9	40.0	3.1	1.5	36.6	43.4
England	618	82.2	10.5	3.5	2.8	82.2	1.0	0.0	85.4	79.6
Georgia	579	81.8	11.9	2.4	2.4	81.8	0.9	0.6	82.0	81.6
Germany	750	90.5	6.4	1.3	0.6	90.5	1.2	0.0	90.9	90.1
Hong Kong SAR	544	96.2	2.9	0.3	0.4	96.2	0.1	0.0	96.1	96.3
Hungary	577	84.3	11.7	2.2	1.0	84.3	0.3	0.5	83.7	85.0
Iran, Islamic Rep. of	553	58.8	31.5	3.5	4.6	58.8	0.8	0.8	59.5	58.2
Italy	633	84.4	11.7	1.5	1.8	84.4	0.3	0.3	82.2	86.8
Japan	643	92.2	3.5	2.1	1.1	92.2	0.8	0.3	92.6	91.9
Kazakhstan	566	89.2	9.0	0.9	0.9	89.2	0.0	0.0	91.3	86.5
Kuwait	533	38.0	38.3	10.0	9.6	38.0	3.4	0.6	39.2	36.6
Latvia	557	91.0	6.7	1.0	1.2	91.0	0.1	0.0	91.3	90.6
Lithuania	562	95.8	1.5	1.4	1.4	95.8	0.0	0.0	96.4	95.2
Morocco	546	39.7	23.8	11.2	17.9	39.7	5.8	1.6	39.5	39.4
Netherlands	475	96.8	1.8	1.0	0.4	96.8	0.0	0.0	95.7	97.8
New Zealand	708	73.2	13.9	6.7	5.3	73.2	0.9	0.0	74.6	71.7
Norway	577	69.9	17.7	7.0	3.4	69.9	1.7	0.3	72.4	67.8
Qatar	984	25.2	42.1	11.1	18.5	25.2	2.8	0.4	24.8	25.6
Russian Federation	642	95.2	3.4	0.4	0.9	95.2	0.1	0.0	94.5	95.8
Scotland	586	80.9	12.5	2.3	2.7	80.9	1.7	0.0	83.0	78.7
Singapore	711	94.5	3.9	1.1	0.5	94.5	0.0	0.0	94.2	94.7
Slovak Republic	716	83.7	12.7	1.4	0.8	83.7	0.5	0.9	80.8	86.6
Slovenia	627	83.2	13.2	2.1	0.8	83.2	0.5	0.2	82.1	84.3
Sweden	663	83.4	11.1	2.7	2.5	83.4	0.0	0.3	82.5	84.3
Tunisia	592	53.9	16.8	9.3	8.1	53.9	8.5	3.4	53.9	54.0
Ukraine	607	84.0	11.7	1.4	2.4	84.0	0.5	0.0	83.6	84.5
United States	1116	84.9	11.3	1.1	1.3	84.9	1.4	0.1	83.6	86.2
Yemen	828	30.4	26.1	11.9	23.0	30.4	6.7	2.0	30.6	30.2
International Avg.	635	75.6	14.7	3.6	4.0	75.6	1.5	0.6	75.5	75.7
Alberta, Canada	551	76.5	14.3	3.6	3.3	76.5	1.9	0.4	73.4	79.1
British Columbia, Canada	602	81.1	12.6	2.6	2.2	81.1	1.3	0.2	79.7	82.3
Dubai, UAE	429	61.1	30.6	2.8	2.2	61.1	3.0	0.3	63.6	58.8
Massachusetts, US	248	96.3	1.4	0.0	0.9	96.3	0.7	0.6	97.6	95.0
Minnesota, US	266	88.6	7.4	2.0	1.6	88.6	0.4	0.0	90.1	87.4
Ontario, Canada	496	76.6	14.7	3.9	4.5	76.6	0.3	0.0	79.1	74.1
Quebec, Canada	567	91.0	3.5	2.0	3.2	91.0	0.3	0.0	91.0	91.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041034 - M14\_03)  
 Label: Multiples of 3  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	546	48.8	48.8	20.6	11.4	10.4	6.8	2.0	53.3	44.4
Armenia	581	82.9	82.9	6.9	3.7	4.6	1.8	0.0	83.9	82.1
Australia	574	55.1	55.1	22.7	10.8	8.3	2.7	0.3	53.6	56.9
Austria	685	88.7	88.7	4.1	1.3	3.0	2.6	0.2	89.2	88.3
Chinese Taipei	591	69.9	69.9	14.1	10.5	3.5	2.0	0.0	71.2	68.6
Colombia	657	36.3	36.3	25.3	22.7	5.6	5.4	4.7	37.6	35.2
Czech Republic	593	76.5	76.5	8.4	6.0	4.8	4.3	0.1	79.2	73.6
Denmark	492	85.2	85.2	4.7	2.6	4.7	2.8	0.0	86.9	82.9
El Salvador	592	14.7	14.7	40.3	32.2	6.3	4.5	2.0	14.1	15.2
England	618	74.0	74.0	11.1	4.6	6.4	4.0	0.0	77.6	71.0
Georgia	579	41.3	41.3	28.0	16.9	4.3	8.6	0.9	41.4	41.2
Germany	750	82.2	82.2	7.1	3.9	3.4	3.4	0.0	81.6	82.8
Hong Kong SAR	544	94.9	94.9	2.3	1.7	0.8	0.3	0.0	95.2	94.5
Hungary	577	67.4	67.4	10.7	12.7	5.3	3.4	0.5	72.2	61.1
Iran, Islamic Rep. of	553	26.8	26.8	25.5	35.7	3.8	7.4	0.8	32.9	20.7
Italy	622	70.9	70.9	12.6	9.2	3.9	3.1	0.3	71.0	70.7
Japan	643	63.7	63.7	20.5	9.4	4.8	1.4	0.3	63.4	63.9
Kazakhstan	566	93.0	93.0	3.4	1.2	2.3	0.1	0.0	94.7	90.7
Kuwait	533	36.3	36.3	37.5	14.1	7.3	3.9	1.0	42.9	28.4
Latvia	557	91.1	91.1	4.0	1.1	3.0	0.8	0.0	94.2	87.6
Lithuania	562	13.2	13.2	41.0	38.6	2.0	5.2	0.0	14.3	12.1
Morocco	534	34.3	34.3	24.0	21.1	7.4	11.1	2.1	30.9	37.7
Netherlands	475	50.7	50.7	22.8	21.3	4.2	1.0	0.0	49.9	51.5
New Zealand	708	50.4	50.4	25.6	14.1	7.4	2.6	0.0	52.5	48.2
Norway	577	63.1	63.1	19.2	4.8	9.4	3.2	0.3	66.6	60.1
Qatar	984	28.0	28.0	31.7	20.0	14.4	5.3	0.6	31.0	24.9
Russian Federation	642	90.3	90.3	5.4	0.4	2.7	1.2	0.0	90.1	90.5
Scotland	586	65.8	65.8	14.9	9.4	5.1	4.8	0.2	67.6	63.9
Singapore	711	93.3	93.3	2.3	1.5	3.0	0.0	0.0	93.3	93.2
Slovak Republic	716	82.9	82.9	5.7	5.4	3.0	2.0	0.9	84.8	80.9
Slovenia	627	82.0	82.0	8.0	2.1	5.4	2.2	0.2	84.6	79.5
Sweden	663	33.9	33.9	25.7	30.4	5.6	4.1	0.3	28.2	39.8
Tunisia	592	37.7	37.7	23.9	10.4	8.4	16.1	3.4	39.2	36.3
Ukraine	607	30.6	30.6	42.3	20.1	2.3	4.8	0.0	30.9	30.2
United States	1116	70.6	70.6	12.4	9.0	6.0	1.9	0.1	68.6	72.7
Yemen	828	14.8	14.8	34.2	27.2	12.1	9.6	2.1	15.0	14.6
International Avg.	633	59.5	59.5	18.0	12.4	5.4	4.0	0.6	60.7	58.2
Alberta, Canada	551	44.3	44.3	25.6	17.8	9.7	2.2	0.4	40.4	47.5
British Columbia, Canada	602	54.8	54.8	21.6	11.9	7.1	4.3	0.2	55.8	53.9
Dubai, UAE	429	66.9	66.9	15.5	7.0	6.0	4.1	0.6	74.2	59.9
Massachusetts, US	248	85.6	85.6	5.3	4.7	2.7	1.1	0.6	85.3	85.9
Minnesota, US	266	67.7	67.7	13.6	10.1	7.5	1.1	0.0	66.6	68.7
Ontario, Canada	496	44.8	44.8	26.7	14.5	10.3	3.7	0.0	44.9	44.7
Quebec, Canada	567	45.3	45.3	29.8	11.1	10.3	3.5	0.0	48.5	41.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Knowing (M041087 - M14\_04)  
 Label: Add 0.36 + 0.77  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	606	7.3	0.0	0.0	79.5	10.8	2.4	7.3	9.2	5.4
Armenia	581	39.3	17.2	10.3	19.0	14.3	0.0	39.3	42.0	36.9
Australia	574	53.9	12.9	4.8	26.4	1.7	0.3	53.9	48.4	60.1
Austria	685	36.9	44.8	1.4	14.3	2.4	0.2	36.9	39.1	35.2
Chinese Taipei	591	92.3	0.0	1.6	5.9	0.2	0.0	92.3	92.7	91.9
Colombia	657	19.4	29.1	2.6	30.5	13.6	4.9	19.4	19.2	19.5
Czech Republic	594	27.0	39.0	5.3	18.7	9.7	0.3	27.0	22.3	31.9
Denmark	492	67.9	9.9	4.0	15.5	2.8	0.0	67.9	63.8	73.4
El Salvador	594	14.3	30.7	4.2	39.3	9.5	2.0	14.3	16.0	12.5
England	618	68.6	4.5	2.7	22.0	2.2	0.0	68.6	73.4	64.7
Georgia	579	17.8	49.5	5.3	15.6	10.5	1.4	17.8	19.0	16.7
Germany	750	70.0	14.3	1.7	12.1	1.8	0.0	70.0	69.0	71.2
Hong Kong SAR	544	71.0	0.9	12.3	15.3	0.5	0.0	71.0	67.6	74.4
Hungary	577	26.3	43.3	8.9	18.1	2.9	0.5	26.3	25.1	27.9
Iran, Islamic Rep. of	553	3.0	51.1	3.7	22.0	18.7	1.4	3.0	4.5	1.6
Italy	635	72.7	6.6	4.2	15.0	1.2	0.3	72.7	75.7	69.4
Japan	643	71.4	3.5	3.7	20.4	0.8	0.3	71.4	73.2	69.8
Kazakhstan	566	70.3	8.6	11.4	9.4	0.2	0.0	70.3	78.4	60.2
Kuwait	533	3.6	35.2	2.0	40.5	17.5	1.2	3.6	4.6	2.5
Latvia	557	65.7	16.0	3.4	13.4	1.6	0.0	65.7	67.4	63.9
Lithuania	562	61.7	18.7	3.9	15.0	0.6	0.0	61.7	67.7	55.6
Morocco	554	39.5	9.7	2.5	29.4	16.7	2.1	39.5	39.0	39.4
Netherlands	475	65.2	16.6	0.4	17.6	0.2	0.0	65.2	65.4	65.1
New Zealand	708	39.4	11.4	5.4	39.1	4.6	0.1	39.4	40.0	38.8
Norway	577	35.9	18.1	5.5	36.6	3.5	0.4	35.9	34.9	36.8
Qatar	984	4.9	34.3	1.8	48.1	10.2	0.7	4.9	5.2	4.5
Russian Federation	642	48.6	25.2	10.6	12.5	3.1	0.0	48.6	52.6	44.9
Scotland	586	36.6	29.5	2.9	25.7	4.9	0.4	36.6	28.6	44.8
Singapore	711	91.1	0.7	0.4	7.7	0.0	0.0	91.1	93.2	89.2
Slovak Republic	716	32.5	30.6	10.9	15.7	9.4	0.9	32.5	31.3	33.7
Slovenia	627	19.6	52.3	2.3	21.9	3.7	0.2	19.6	15.8	23.4
Sweden	663	38.1	23.5	3.5	26.3	8.2	0.4	38.1	31.0	45.5
Tunisia	592	8.7	41.3	7.1	27.4	12.0	3.5	8.7	10.1	7.3
Ukraine	607	36.4	27.1	12.2	21.7	2.6	0.0	36.4	35.1	37.7
United States	1116	69.7	10.3	6.0	12.8	1.0	0.1	69.7	71.6	67.8
Yemen	828	14.8	9.5	4.3	50.0	19.3	2.1	14.8	15.9	13.9
International Avg.	635	42.8	21.5	4.8	23.9	6.2	0.7	42.8	43.0	42.7
Alberta, Canada	551	42.9	27.2	3.5	23.1	2.9	0.4	42.9	40.1	45.2
British Columbia, Canada	602	52.9	21.0	1.8	20.8	3.1	0.4	52.9	56.5	49.6
Dubai, UAE	429	51.6	15.1	8.0	21.3	3.3	0.6	51.6	54.5	48.9
Massachusetts, US	248	75.8	5.1	4.8	12.5	1.1	0.6	75.8	80.1	71.6
Minnesota, US	266	77.6	7.6	3.1	10.9	0.8	0.0	77.6	79.4	76.1
Ontario, Canada	496	42.9	22.4	6.4	25.6	2.3	0.5	42.9	42.1	43.6
Quebec, Canada	567	46.8	30.9	3.2	17.8	1.3	0.0	46.8	46.4	47.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Number / Applying (M041124 - M14\_05)  
 Label: Use the rule to complete the table  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	604	32.7	5.3	2.3	42.7	13.1	3.9	32.7	37.9	27.6
Armenia	581	59.5	11.3	1.7	12.6	14.7	0.1	59.5	65.3	54.6
Australia	574	53.3	8.1	3.3	29.5	5.4	0.4	53.3	54.8	51.6
Austria	685	39.2	6.8	4.3	36.7	12.7	0.2	39.2	39.2	39.3
Chinese Taipei	591	79.4	4.2	3.5	12.0	0.9	0.0	79.4	83.0	76.1
Colombia	657	24.9	7.5	2.1	43.4	15.9	6.3	24.9	21.8	27.6
Czech Republic	594	54.4	6.3	7.3	22.3	9.3	0.4	54.4	58.0	50.7
Denmark	492	61.3	6.3	2.0	20.7	9.7	0.0	61.3	58.2	65.3
El Salvador	594	9.4	2.5	3.2	52.1	29.9	2.9	9.4	9.8	9.1
England	618	63.5	7.6	5.6	17.8	5.6	0.0	63.5	64.2	62.9
Georgia	579	47.1	6.5	4.6	17.8	22.1	1.9	47.1	48.1	46.1
Germany	750	49.6	5.2	4.7	29.7	10.6	0.1	49.6	47.9	51.3
Hong Kong SAR	544	81.0	7.7	0.8	9.4	1.1	0.0	81.0	80.2	81.8
Hungary	577	81.7	6.1	1.9	8.7	0.9	0.8	81.7	85.9	76.3
Iran, Islamic Rep. of	553	40.1	6.1	5.7	33.6	12.7	1.7	40.1	47.1	33.3
Italy	635	57.4	9.2	9.4	17.1	6.5	0.3	57.4	58.9	55.8
Japan	643	79.3	3.7	4.0	11.1	1.7	0.3	79.3	81.1	77.7
Kazakhstan	566	70.9	4.8	1.4	20.4	2.5	0.0	70.9	76.9	63.3
Kuwait	533	17.9	1.4	3.3	55.4	19.6	2.3	17.9	25.4	9.0
Latvia	557	64.2	6.9	4.5	17.0	7.4	0.0	64.2	71.3	56.4
Lithuania	562	78.8	6.2	5.1	9.1	0.8	0.0	78.8	86.3	71.2
Morocco	554	19.0	3.4	4.3	47.5	23.4	2.5	19.0	18.7	18.3
Netherlands	475	34.2	5.0	0.9	54.4	5.5	0.0	34.2	33.1	35.1
New Zealand	708	44.9	7.7	2.1	39.5	5.5	0.3	44.9	44.1	45.7
Norway	577	34.6	5.9	2.3	44.0	12.7	0.4	34.6	35.5	33.9
Qatar	984	10.5	2.7	3.8	64.4	17.8	0.8	10.5	13.1	7.8
Russian Federation	642	64.7	4.9	4.2	20.5	5.7	0.0	64.7	66.6	63.0
Scotland	586	52.9	8.5	2.7	27.7	7.8	0.4	52.9	51.0	54.8
Singapore	711	75.1	8.1	1.8	14.3	0.7	0.0	75.1	78.4	72.1
Slovak Republic	716	65.0	5.1	3.6	16.4	8.7	1.1	65.0	66.0	64.0
Slovenia	627	49.9	8.8	1.8	32.3	6.8	0.3	49.9	48.2	51.7
Sweden	663	30.7	3.6	5.0	43.0	17.4	0.4	30.7	33.6	27.6
Tunisia	592	24.6	3.0	8.8	43.6	16.3	3.7	24.6	26.9	22.4
Ukraine	607	51.8	5.5	1.2	27.9	13.5	0.0	51.8	54.7	49.1
United States	1116	64.3	7.6	4.8	21.4	1.8	0.1	64.3	63.9	64.7
Yemen	828	5.1	2.2	1.3	69.3	20.1	2.1	5.1	3.1	6.6
International Avg.	635	49.2	5.9	3.6	30.1	10.2	0.9	49.2	51.1	47.3
Alberta, Canada	551	46.7	8.9	4.3	34.3	5.3	0.4	46.7	46.7	46.8
British Columbia, Canada	602	49.4	8.2	2.9	31.4	7.6	0.4	49.4	48.6	50.1
Dubai, UAE	429	56.2	5.8	5.7	23.2	7.9	1.2	56.2	61.3	51.4
Massachusetts, US	248	80.6	7.5	2.1	7.6	1.5	0.6	80.6	79.5	81.7
Minnesota, US	266	67.2	8.8	5.5	17.3	0.8	0.4	67.2	72.1	62.8
Ontario, Canada	496	49.5	8.3	2.8	33.3	5.5	0.6	49.5	50.7	48.3
Quebec, Canada	567	52.6	6.9	5.0	27.6	8.0	0.0	52.6	49.8	56.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041302A - M14\_06A)  
 Label: What shape is made  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	573	52.9	10.4	14.3	52.9	11.1	6.5	4.9	54.3	51.4
Armenia	574	79.4	7.4	2.9	79.4	6.3	3.9	0.1	81.2	77.9
Australia	574	79.6	1.0	11.3	79.6	6.4	1.3	0.4	77.8	81.6
Austria	685	91.1	0.9	2.8	91.1	3.0	2.0	0.2	91.0	91.2
Chinese Taipei	591	81.3	1.8	4.2	81.3	11.8	0.9	0.0	85.7	77.3
Colombia	657	23.1	12.6	34.5	23.1	15.1	6.9	7.8	17.0	28.6
Czech Republic	595	85.4	0.6	5.6	85.4	6.5	1.6	0.4	84.8	86.1
Denmark	491	89.1	0.9	5.3	89.1	3.2	1.2	0.4	91.5	85.8
El Salvador	593	28.8	14.5	28.2	28.8	20.9	3.0	4.5	32.6	25.1
England	618	86.9	0.6	8.0	86.9	2.9	1.6	0.0	89.5	84.8
Georgia	579	61.2	12.8	8.1	61.2	11.5	4.5	1.9	63.8	58.8
Germany	750	89.8	1.0	3.1	89.8	4.8	1.2	0.1	91.7	87.8
Hong Kong SAR	544	94.0	0.6	1.1	94.0	4.3	0.0	0.0	93.8	94.1
Hungary	577	87.3	1.6	2.8	87.3	6.6	1.0	0.8	87.9	86.6
Iran, Islamic Rep. of	553	74.0	4.0	2.2	74.0	13.3	4.7	1.7	75.2	72.7
Italy	634	60.7	2.0	29.0	60.7	6.2	1.8	0.3	58.0	63.7
Japan	643	86.1	1.7	5.9	86.1	5.5	0.6	0.3	85.9	86.3
Kazakhstan	566	82.2	4.9	5.2	82.2	7.6	0.2	0.0	86.1	77.2
Kuwait	533	24.6	16.8	30.9	24.6	15.3	9.6	2.7	28.4	20.1
Latvia	557	96.5	0.8	1.2	96.5	1.4	0.1	0.0	97.5	95.4
Lithuania	562	85.0	5.4	3.3	85.0	4.7	1.5	0.1	84.9	85.1
Morocco	548	55.4	11.5	9.4	55.4	13.0	8.1	2.7	52.5	58.4
Netherlands	475	88.7	0.7	6.0	88.7	4.2	0.4	0.0	87.4	89.8
New Zealand	708	66.4	2.8	16.8	66.4	11.4	2.3	0.3	70.9	61.8
Norway	577	83.4	2.5	4.3	83.4	7.3	1.9	0.7	86.5	80.7
Qatar	984	25.7	20.3	30.4	25.7	16.1	6.3	1.2	24.8	26.7
Russian Federation	642	89.2	2.2	2.9	89.2	4.7	1.0	0.0	87.2	91.1
Scotland	586	69.0	1.9	20.5	69.0	5.7	2.1	0.8	68.3	69.7
Singapore	711	70.4	1.7	23.4	70.4	4.4	0.1	0.0	70.8	70.0
Slovak Republic	716	86.3	3.4	3.5	86.3	4.1	1.6	1.1	87.5	85.1
Slovenia	627	91.0	0.9	2.9	91.0	3.6	1.2	0.4	92.8	89.2
Sweden	663	86.5	0.3	5.0	86.5	6.0	1.7	0.4	88.6	84.4
Tunisia	592	52.4	8.9	11.5	52.4	9.4	13.8	4.1	51.6	53.2
Ukraine	607	71.5	4.6	5.2	71.5	16.4	2.2	0.0	69.7	73.4
United States	1116	73.6	1.8	17.6	73.6	5.0	1.8	0.1	74.4	72.8
Yemen	828	26.5	24.2	18.3	26.5	18.6	10.2	2.1	24.0	28.6
International Avg.	634	71.5	5.3	10.8	71.5	8.3	3.0	1.1	72.1	70.9
Alberta, Canada	551	60.3	1.8	30.3	60.3	5.4	1.8	0.4	60.4	60.3
British Columbia, Canada	602	64.9	1.5	23.3	64.9	7.7	1.9	0.7	67.2	62.9
Dubai, UAE	429	40.8	8.7	33.9	40.8	11.1	4.0	1.4	42.9	38.8
Massachusetts, US	248	86.5	0.0	10.7	86.5	1.7	0.5	0.6	87.1	85.9
Minnesota, US	266	79.8	1.9	14.3	79.8	2.5	1.2	0.4	85.0	75.3
Ontario, Canada	496	75.5	0.2	15.7	75.5	6.5	1.5	0.6	78.0	73.1
Quebec, Canada	567	64.3	1.3	27.9	64.3	5.4	1.1	0.0	64.4	64.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041302B - M14\_06B)  
 Label: What points did you connect  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	33.6	1.7	4.1	0.7	46.0	8.5	5.4	33.6	37.2	30.0
Armenia	581	54.0	16.1	0.0	0.0	15.6	14.2	0.1	54.0	55.7	52.4
Australia	574	66.5	3.0	0.2	19.7	9.3	0.9	0.4	66.5	68.4	64.3
Austria	685	66.2	3.6	0.2	21.7	7.3	0.8	0.3	66.2	68.2	64.5
Chinese Taipei	591	65.8	3.4	1.1	10.5	18.3	0.9	0.0	65.8	70.4	61.6
Colombia	657	32.4	3.0	1.4	17.3	33.4	3.4	9.2	32.4	33.8	31.1
Czech Republic	595	58.4	5.3	0.8	25.7	7.0	2.1	0.8	58.4	60.4	56.2
Denmark	492	75.0	5.1	0.1	6.5	11.6	1.4	0.4	75.0	78.6	70.1
El Salvador	594	29.0	4.0	3.5	13.2	35.9	9.4	5.0	29.0	30.8	27.3
England	618	66.4	3.6	0.5	19.9	7.9	1.7	0.0	66.4	70.1	63.3
Georgia	579	41.1	8.0	2.2	16.3	20.3	9.8	2.3	41.1	43.9	38.5
Germany	750	69.5	3.2	0.1	17.0	8.1	1.7	0.4	69.5	72.8	66.1
Hong Kong SAR	544	61.1	17.8	0.7	15.9	4.5	0.0	0.0	61.1	58.4	63.8
Hungary	577	64.8	3.4	0.3	18.2	11.8	0.6	0.9	64.8	62.7	67.4
Iran, Islamic Rep. of	553	37.6	5.8	0.0	16.8	33.5	3.1	3.1	37.6	39.2	36.1
Italy	635	57.0	11.1	0.9	18.0	10.2	2.6	0.3	57.0	59.1	54.6
Japan	643	72.6	5.6	4.0	9.5	7.5	0.6	0.3	72.6	78.0	67.8
Kazakhstan	566	57.3	9.8	0.8	12.6	17.5	2.0	0.0	57.3	65.5	47.0
Kuwait	533	14.4	8.6	1.2	8.1	52.2	12.0	3.5	14.4	18.5	9.4
Latvia	557	74.5	6.8	0.6	10.1	8.0	0.0	0.0	74.5	79.1	69.5
Lithuania	562	76.0	1.0	0.0	14.1	8.5	0.3	0.1	76.0	79.0	72.9
Morocco	554	31.9	2.6	0.3	1.5	47.4	13.2	3.1	31.9	31.3	32.2
Netherlands	475	61.7	4.2	1.8	21.2	10.1	1.1	0.0	61.7	58.8	64.3
New Zealand	708	60.2	4.1	0.6	19.4	12.9	2.4	0.3	60.2	62.1	58.3
Norway	577	60.8	4.4	0.5	13.3	18.8	1.4	0.8	60.8	63.3	58.6
Qatar	984	16.1	5.6	1.5	12.4	55.8	7.1	1.5	16.1	18.1	14.0
Russian Federation	642	66.5	6.1	2.0	15.0	8.7	1.6	0.0	66.5	70.2	63.1
Scotland	586	58.7	4.2	0.9	21.1	11.9	2.0	1.2	58.7	59.4	58.0
Singapore	711	69.9	3.0	1.2	15.7	10.3	0.0	0.0	69.9	72.7	67.2
Slovak Republic	716	63.7	3.2	0.7	17.4	11.1	2.7	1.2	63.7	66.6	60.8
Slovenia	627	59.4	8.6	0.8	22.2	6.5	1.9	0.6	59.4	63.5	55.4
Sweden	663	66.5	5.1	0.3	14.5	12.1	1.1	0.4	66.5	67.5	65.4
Tunisia	592	21.6	2.9	0.0	24.0	40.6	6.2	4.7	21.6	23.9	19.3
Ukraine	607	48.2	1.0	2.6	21.5	23.1	3.4	0.2	48.2	49.5	46.9
United States	1116	63.5	4.0	3.1	16.5	10.9	1.7	0.1	63.5	63.5	63.5
Yemen	828	3.7	0.8	1.2	11.2	65.5	14.7	2.9	3.7	3.3	4.1
International Avg.	636	53.5	5.3	1.1	15.0	20.0	3.8	1.4	53.5	55.7	51.3
Alberta, Canada	551	64.8	2.0	1.9	18.1	11.0	1.7	0.4	64.8	67.2	62.9
British Columbia, Canada	602	63.5	2.1	1.4	16.6	13.5	2.0	0.9	63.5	65.3	61.8
Dubai, UAE	429	48.1	7.5	0.6	17.8	20.7	3.9	1.4	48.1	54.3	42.2
Massachusetts, US	248	75.3	2.6	4.2	14.2	2.7	0.5	0.6	75.3	78.1	72.5
Minnesota, US	266	73.2	5.0	3.5	11.1	5.7	1.2	0.4	73.2	73.6	72.8
Ontario, Canada	496	66.7	3.1	1.8	16.2	10.8	0.8	0.6	66.7	70.3	63.1
Quebec, Canada	567	68.4	1.8	2.8	15.6	10.2	1.2	0.0	68.4	66.6	70.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Reasoning (M041302C - M14\_06C)  
 Label: Draw a 6-sided shape  
 Type: CR Key: -

COUNTRY	N	10	11	70	79	OMIT TED	NOT REACH ED	NOT REACH ED		
								V1	1.GIRL %Right	2.BOY %Right
Algeria	606	29.1	6.3	3.2	32.9	22.0	6.5	35.4	36.7	34.1
Armenia	581	55.1	4.6	2.6	14.1	23.4	0.1	59.7	63.0	56.9
Australia	574	46.1	25.0	3.6	21.6	3.3	0.5	71.1	71.5	70.6
Austria	685	49.9	12.0	3.7	23.0	11.0	0.4	61.9	64.5	59.9
Chinese Taipei	591	64.7	9.8	4.5	17.7	3.2	0.0	74.5	73.6	75.4
Colombia	657	15.5	8.6	7.1	44.6	13.5	10.7	24.2	20.1	27.8
Czech Republic	595	40.6	12.9	1.6	23.9	20.2	0.8	53.5	50.1	57.2
Denmark	492	74.3	11.7	0.8	8.8	4.0	0.4	86.0	90.7	79.9
El Salvador	594	15.5	4.6	3.1	42.8	28.7	5.3	20.1	17.4	22.8
England	618	52.2	19.6	5.1	17.9	5.1	0.1	71.8	71.3	72.2
Georgia	579	36.2	6.1	7.0	26.8	21.1	2.8	42.3	41.3	43.2
Germany	750	50.5	12.0	0.4	27.4	8.9	0.8	62.5	60.2	64.9
Hong Kong SAR	544	33.5	57.2	2.8	5.0	1.6	0.0	90.7	89.5	91.8
Hungary	577	49.2	15.0	4.5	25.2	5.2	0.9	64.2	64.5	63.8
Iran, Islamic Rep. of	553	32.6	18.3	5.1	31.5	9.6	3.1	50.8	52.3	49.4
Italy	635	50.0	11.0	1.2	24.9	12.6	0.3	61.0	58.3	63.9
Japan	643	70.7	16.1	1.9	9.3	1.7	0.3	86.8	90.1	83.8
Kazakhstan	566	49.3	20.5	3.5	19.0	7.7	0.1	69.8	75.3	62.8
Kuwait	533	5.0	2.1	0.0	54.3	34.9	3.8	7.1	10.3	3.3
Latvia	557	57.5	21.4	2.2	16.6	2.3	0.0	78.9	78.4	79.4
Lithuania	562	51.5	18.2	5.3	21.0	3.9	0.1	69.7	73.9	65.4
Morocco	554	17.3	5.6	1.5	46.7	25.2	3.7	22.9	24.7	21.4
Netherlands	475	59.6	8.5	1.0	29.0	1.7	0.3	68.1	64.9	71.0
New Zealand	708	43.2	21.8	3.6	24.8	6.3	0.3	65.0	65.7	64.3
Norway	577	56.8	11.2	0.5	24.1	6.4	1.0	67.9	72.0	64.3
Qatar	984	4.8	1.9	0.8	67.0	23.4	2.0	6.8	7.7	5.8
Russian Federation	642	52.2	17.7	6.3	16.0	7.7	0.0	69.9	68.0	71.7
Scotland	586	38.5	14.0	3.3	33.3	9.8	1.2	52.5	47.5	57.7
Singapore	711	46.2	26.4	1.5	25.2	0.7	0.0	72.6	74.5	70.9
Slovak Republic	716	49.1	11.2	3.5	20.1	14.7	1.4	60.3	61.6	59.1
Slovenia	627	47.4	16.3	6.2	24.8	4.5	0.7	63.8	61.1	66.4
Sweden	663	51.7	18.7	1.7	18.7	8.8	0.4	70.5	72.9	68.0
Tunisia	592	12.3	2.8	17.0	52.1	11.0	4.8	15.2	15.9	14.5
Ukraine	607	40.5	10.4	5.3	27.2	16.3	0.3	50.9	50.3	51.4
United States	1116	38.4	23.8	7.6	26.9	3.1	0.1	62.2	60.7	63.8
Yemen	828	2.3	0.8	4.8	54.5	34.3	3.3	3.1	3.3	3.0
International Avg.	636	41.4	14.0	3.7	27.7	11.6	1.6	55.4	55.7	55.0
Alberta, Canada	551	39.7	20.9	3.5	30.9	4.5	0.4	60.6	56.7	63.8
British Columbia, Canada	602	42.1	20.3	3.3	27.5	6.0	0.9	62.4	57.3	67.0
Dubai, UAE	429	26.3	13.1	4.9	37.1	17.1	1.4	39.4	41.3	37.6
Massachusetts, US	248	53.1	31.1	4.8	9.4	0.9	0.6	84.2	82.1	86.3
Minnesota, US	266	54.8	25.9	3.4	13.7	1.9	0.4	80.6	77.9	83.0
Ontario, Canada	496	42.6	24.5	3.7	25.2	3.4	0.6	67.1	65.1	69.0
Quebec, Canada	567	52.7	12.6	3.0	24.4	6.9	0.3	65.3	63.8	67.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Knowing (M041254 - M14\_07)  
 Label: How many edges does the cube have  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	591	40.0	27.7	8.2	12.4	40.0	4.4	7.3	39.8	40.2
Armenia	582	61.3	18.4	9.8	7.0	61.3	3.3	0.1	62.3	60.4
Australia	574	70.5	13.3	9.4	4.7	70.5	1.6	0.5	68.5	72.7
Austria	685	61.1	23.7	8.4	4.3	61.1	1.9	0.6	59.9	62.1
Chinese Taipei	591	91.5	3.2	2.9	1.8	91.5	0.6	0.0	93.3	89.8
Colombia	657	27.2	38.4	10.3	6.2	27.2	5.1	12.9	27.0	27.5
Czech Republic	595	38.5	39.8	10.6	5.8	38.5	4.3	1.1	41.3	35.6
Denmark	490	36.6	31.3	14.5	8.7	36.6	7.8	1.2	36.7	36.3
El Salvador	593	21.1	47.3	11.9	9.4	21.1	3.2	7.0	20.0	22.2
England	618	61.3	16.2	10.4	10.3	61.3	1.7	0.1	67.6	56.3
Georgia	579	47.5	28.5	7.1	8.0	47.5	5.3	3.5	44.3	50.5
Germany	750	67.9	17.7	8.1	3.5	67.9	1.5	1.3	68.0	67.8
Hong Kong SAR	544	82.5	4.6	4.6	7.8	82.5	0.2	0.3	82.3	82.7
Hungary	577	59.5	21.1	10.5	6.5	59.5	1.2	1.2	61.5	57.0
Iran, Islamic Rep. of	553	26.9	41.2	13.8	7.1	26.9	6.2	4.8	26.7	27.0
Italy	633	29.5	50.9	11.4	3.3	29.5	3.6	1.3	27.7	31.4
Japan	643	66.1	10.6	12.6	9.2	66.1	1.2	0.3	64.7	67.3
Kazakhstan	566	67.9	21.7	6.4	3.8	67.9	0.1	0.1	68.6	66.9
Kuwait	533	17.2	44.6	17.4	9.0	17.2	7.7	4.1	21.9	11.6
Latvia	557	56.1	22.4	12.2	6.9	56.1	2.5	0.0	60.0	51.8
Lithuania	562	71.8	14.2	5.7	7.9	71.8	0.3	0.1	73.8	69.8
Morocco	548	41.5	22.2	11.7	13.5	41.5	6.1	5.1	39.5	43.4
Netherlands	475	35.1	42.9	15.1	6.1	35.1	0.6	0.3	35.7	34.5
New Zealand	708	53.5	22.9	11.3	8.7	53.5	3.3	0.3	55.0	52.1
Norway	577	25.7	45.6	14.2	5.0	25.7	6.8	2.7	27.3	24.3
Qatar	984	22.6	36.6	19.6	15.1	22.6	3.7	2.3	25.1	20.0
Russian Federation	642	56.4	24.1	9.1	8.0	56.4	2.4	0.0	58.4	54.6
Scotland	586	57.5	22.3	9.1	7.8	57.5	1.7	1.6	56.9	58.3
Singapore	711	56.9	20.7	14.6	7.2	56.9	0.5	0.0	54.9	58.8
Slovak Republic	716	46.1	33.1	9.5	6.0	46.1	3.2	2.1	43.0	49.1
Slovenia	627	66.1	17.8	7.8	6.0	66.1	1.1	1.2	66.0	66.2
Sweden	663	28.9	45.9	13.7	7.1	28.9	3.1	1.3	26.3	31.6
Tunisia	592	15.9	33.3	16.9	15.1	15.9	13.3	5.4	12.2	19.7
Ukraine	607	42.3	33.8	12.1	9.4	42.3	2.0	0.4	42.1	42.4
United States	1116	53.5	25.4	11.6	7.3	53.5	2.0	0.1	48.7	58.4
Yemen	828	29.2	24.3	20.2	13.8	29.2	8.9	3.5	33.4	26.0
International Avg.	635	48.1	27.4	11.2	7.8	48.1	3.4	2.1	48.3	48.0
Alberta, Canada	551	60.2	19.6	10.1	6.9	60.2	2.8	0.4	58.8	61.3
British Columbia, Canada	602	51.1	26.3	10.4	8.5	51.1	2.5	1.3	52.1	50.1
Dubai, UAE	429	37.9	35.9	13.1	7.2	37.9	4.2	1.8	40.7	35.3
Massachusetts, US	248	63.5	18.8	9.7	6.1	63.5	1.3	0.6	64.6	62.3
Minnesota, US	266	64.3	23.0	6.7	4.7	64.3	0.9	0.4	67.6	61.3
Ontario, Canada	496	61.7	19.0	9.0	7.9	61.7	1.3	1.1	61.4	62.1
Quebec, Canada	567	74.0	11.1	6.1	6.3	74.0	1.9	0.6	74.5	73.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041153 - M14\_08)  
 Label: Perimeter of the compound figure  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	587	27.0	28.0	18.2	27.0	12.1	6.6	8.1	30.0	23.9
Armenia	579	40.2	18.1	12.7	40.2	24.9	4.0	0.1	40.7	39.8
Australia	574	62.6	7.8	20.6	62.6	6.0	2.4	0.6	60.3	65.3
Austria	685	49.5	15.8	17.9	49.5	9.4	6.9	0.6	46.4	52.1
Chinese Taipei	591	73.4	4.7	8.6	73.4	12.8	0.5	0.0	71.3	75.4
Colombia	657	18.9	32.7	18.3	18.9	7.7	7.8	14.6	15.8	21.7
Czech Republic	595	45.0	14.0	17.9	45.0	14.1	7.8	1.1	40.9	49.5
Denmark	492	71.3	5.2	17.1	71.3	3.1	2.0	1.3	71.2	71.5
El Salvador	591	18.4	34.0	28.5	18.4	4.8	6.9	7.4	16.1	20.7
England	618	65.8	9.5	16.7	65.8	5.5	2.3	0.1	67.9	64.1
Georgia	579	27.2	21.7	15.0	27.2	23.7	8.8	3.5	26.2	28.1
Germany	750	57.5	9.9	21.1	57.5	6.5	3.6	1.3	54.7	60.5
Hong Kong SAR	544	82.5	1.0	5.3	82.5	10.0	0.9	0.3	81.9	83.2
Hungary	577	55.8	13.3	15.2	55.8	11.2	3.3	1.2	55.6	56.2
Iran, Islamic Rep. of	553	20.2	35.7	14.3	20.2	18.7	5.2	5.8	20.2	20.2
Italy	634	53.1	15.9	19.7	53.1	5.6	4.1	1.5	52.1	54.2
Japan	643	70.5	6.7	16.9	70.5	4.6	0.9	0.3	68.7	72.1
Kazakhstan	566	44.1	11.0	13.5	44.1	31.2	0.1	0.1	46.0	41.7
Kuwait	533	13.2	38.2	27.3	13.2	8.4	7.8	5.2	14.3	11.8
Latvia	557	62.7	10.3	12.8	62.7	11.4	2.2	0.6	66.1	59.0
Lithuania	562	57.1	10.1	12.6	57.1	17.9	2.4	0.1	56.9	57.2
Morocco	545	22.8	32.7	15.7	22.8	14.9	7.5	6.5	21.5	24.3
Netherlands	475	71.3	5.3	15.0	71.3	7.2	0.9	0.3	71.4	71.1
New Zealand	708	46.8	14.1	24.0	46.8	9.8	4.7	0.6	44.7	49.0
Norway	577	46.4	16.3	27.1	46.4	2.5	3.5	4.2	48.5	44.6
Qatar	984	17.6	40.0	25.7	17.6	7.3	6.5	3.0	14.5	20.8
Russian Federation	642	40.4	15.1	15.0	40.4	25.5	3.9	0.1	37.7	42.9
Scotland	586	38.8	20.2	25.8	38.8	7.0	6.0	2.2	35.5	42.2
Singapore	711	83.6	2.0	6.6	83.6	6.9	0.8	0.0	85.2	82.2
Slovak Republic	716	51.5	16.3	16.5	51.5	10.3	3.3	2.2	49.4	53.6
Slovenia	627	48.9	15.0	22.7	48.9	7.4	4.5	1.4	45.1	52.7
Sweden	663	69.9	3.9	16.0	69.9	6.1	2.7	1.4	70.9	68.8
Tunisia	592	25.9	27.5	18.9	25.9	10.7	10.1	6.9	22.7	29.1
Ukraine	607	30.3	21.1	21.8	30.3	19.3	7.0	0.4	31.1	29.5
United States	1116	55.5	14.9	21.0	55.5	5.8	2.4	0.4	52.2	59.0
Yemen	828	18.7	38.4	15.5	18.7	15.4	7.5	4.5	19.4	18.2
International Avg.	635	46.8	17.4	17.7	46.8	11.3	4.4	2.4	45.9	47.7
Alberta, Canada	551	58.8	13.3	19.8	58.8	5.2	1.6	1.3	49.1	66.8
British Columbia, Canada	602	48.8	13.3	26.7	48.8	5.3	4.4	1.5	44.1	53.1
Dubai, UAE	429	32.5	29.5	20.1	32.5	8.5	7.2	2.2	29.5	35.4
Massachusetts, US	248	69.8	5.2	17.4	69.8	5.3	1.6	0.6	64.5	75.1
Minnesota, US	266	73.7	7.0	13.7	73.7	4.3	0.9	0.4	74.6	73.0
Ontario, Canada	496	65.7	10.1	16.9	65.7	3.6	2.6	1.1	62.2	69.3
Quebec, Canada	567	68.2	8.7	16.7	68.2	3.1	2.6	0.7	68.2	68.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041132 - M14\_09)  
 Label: How many tiles long the snake is  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	585	27.2	9.3	27.2	20.6	28.9	4.8	9.2	28.9	25.3
Armenia	582	46.7	8.6	46.7	22.1	19.5	2.9	0.3	47.0	46.4
Australia	574	43.9	4.6	43.9	27.7	21.1	2.1	0.6	39.2	49.0
Austria	685	45.9	2.8	45.9	27.5	21.8	1.5	0.6	41.2	49.7
Chinese Taipei	591	50.1	4.3	50.1	21.3	23.8	0.4	0.0	49.8	50.3
Colombia	657	30.4	7.1	30.4	17.1	26.5	2.9	15.9	29.1	31.6
Czech Republic	593	46.9	4.0	46.9	21.9	24.7	1.4	1.1	43.2	50.9
Denmark	491	47.1	3.3	47.1	27.1	18.2	2.3	1.9	47.9	46.1
El Salvador	592	35.7	5.7	35.7	21.5	25.0	3.8	8.3	33.1	38.4
England	618	50.3	3.0	50.3	25.0	20.3	1.4	0.1	49.0	51.4
Georgia	579	38.4	3.9	38.4	19.9	27.2	6.8	3.8	37.4	39.3
Germany	750	45.7	5.5	45.7	25.7	20.0	1.7	1.3	39.1	52.6
Hong Kong SAR	544	54.4	8.0	54.4	21.4	15.5	0.4	0.3	57.3	51.4
Hungary	577	51.3	3.5	51.3	21.8	21.4	0.9	1.2	47.6	56.0
Iran, Islamic Rep. of	553	38.0	5.8	38.0	16.9	28.7	2.9	7.7	37.3	38.8
Italy	634	46.6	7.0	46.6	21.0	23.2	0.6	1.7	43.2	50.3
Japan	643	52.8	6.2	52.8	23.9	15.3	1.3	0.5	50.7	54.6
Kazakhstan	566	56.3	6.4	56.3	22.6	14.5	0.1	0.1	57.8	54.3
Kuwait	533	18.1	6.1	18.1	23.2	40.5	6.5	5.6	16.8	19.6
Latvia	557	47.8	4.8	47.8	25.8	20.0	0.9	0.7	48.7	46.8
Lithuania	562	50.2	4.9	50.2	26.6	17.2	0.9	0.2	50.9	49.4
Morocco	549	21.4	8.6	21.4	23.3	30.8	9.2	6.8	20.6	22.4
Netherlands	475	49.5	3.0	49.5	33.5	13.2	0.5	0.3	44.5	54.1
New Zealand	708	43.9	4.8	43.9	24.7	23.3	2.7	0.6	44.8	42.9
Norway	577	38.1	8.9	38.1	24.6	22.2	1.6	4.5	40.2	36.2
Qatar	984	16.7	12.2	16.7	20.2	40.7	6.9	3.4	14.3	19.2
Russian Federation	642	59.0	4.1	59.0	20.1	16.0	0.2	0.6	55.5	62.3
Scotland	586	42.0	2.7	42.0	24.7	27.0	1.2	2.4	39.2	44.9
Singapore	711	48.8	5.3	48.8	24.3	21.2	0.5	0.0	48.1	49.4
Slovak Republic	716	47.6	3.1	47.6	20.9	24.7	1.5	2.2	45.6	49.7
Slovenia	627	47.5	6.3	47.5	20.3	21.9	2.0	2.0	43.9	51.1
Sweden	663	48.0	4.5	48.0	26.4	18.3	1.2	1.5	49.5	46.5
Tunisia	592	26.3	9.4	26.3	23.2	25.9	7.3	7.8	25.9	26.7
Ukraine	607	45.4	6.2	45.4	22.5	24.7	0.8	0.4	39.5	51.1
United States	1116	46.9	4.8	46.9	23.9	22.3	1.7	0.4	45.9	47.8
Yemen	828	17.9	11.3	17.9	25.2	34.5	6.4	4.7	19.4	16.7
International Avg.	635	42.3	5.8	42.3	23.3	23.3	2.5	2.7	40.9	43.7
Alberta, Canada	550	45.8	4.8	45.8	23.2	23.2	1.5	1.5	43.8	47.5
British Columbia, Canada	602	45.7	4.1	45.7	23.2	23.6	1.8	1.6	44.8	46.5
Dubai, UAE	429	31.3	6.8	31.3	20.5	34.6	4.1	2.5	32.2	30.5
Massachusetts, US	248	58.9	4.6	58.9	23.2	11.3	1.3	0.6	55.9	61.9
Minnesota, US	266	54.1	5.3	54.1	22.3	17.1	0.9	0.4	56.7	51.8
Ontario, Canada	496	40.7	3.2	40.7	28.6	24.2	1.9	1.5	41.4	39.9
Quebec, Canada	567	40.8	5.1	40.8	24.6	26.2	2.0	1.3	39.9	41.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Geometric Shapes and Measures / Applying (M041165 - M14\_10)  
 Label: Draw all the lines of symmetry  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
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Algeria	603	7.5	13.7	34.4	34.2	10.1	21.2	7.5	7.5	7.6
Armenia	582	32.0	20.5	27.9	19.3	0.3	52.5	32.0	32.2	31.9
Australia	574	48.2	17.3	26.5	6.9	1.1	65.5	48.2	51.7	44.3
Austria	685	7.0	12.9	38.4	40.9	0.8	19.9	7.0	7.8	6.4
Chinese Taipei	591	7.6	8.4	64.9	19.2	0.0	16.0	7.6	8.5	6.8
Colombia	657	2.7	5.4	40.4	34.3	17.2	8.1	2.7	4.3	1.3
Czech Republic	595	9.7	15.4	30.4	43.1	1.4	25.0	9.7	7.2	12.3
Denmark	492	34.7	16.4	29.5	16.8	2.5	51.1	34.7	35.2	34.1
El Salvador	594	4.6	7.9	32.9	45.6	9.0	12.5	4.6	2.5	6.6
England	618	70.7	16.0	7.7	5.2	0.4	86.7	70.7	76.4	66.1
Georgia	579	13.6	25.9	16.5	38.6	5.4	39.5	13.6	12.4	14.8
Germany	750	38.9	20.9	24.1	14.9	1.3	59.7	38.9	39.7	38.0
Hong Kong SAR	544	90.2	6.3	3.1	0.1	0.3	96.5	90.2	91.0	89.3
Hungary	577	33.1	16.4	32.0	16.6	1.9	49.5	33.1	30.0	37.1
Iran, Islamic Rep. of	553	19.0	35.4	18.8	18.2	8.6	54.4	19.0	17.5	20.5
Italy	634	32.8	31.1	17.0	17.5	1.7	63.8	32.8	33.6	31.8
Japan	643	11.7	9.9	60.6	17.3	0.5	21.7	11.7	13.0	10.6
Kazakhstan	566	41.8	28.8	21.1	8.3	0.1	70.6	41.8	46.1	36.5
Kuwait	533	0.6	5.3	34.6	52.7	6.7	5.9	0.6	0.0	1.3
Latvia	557	19.9	9.7	44.8	25.0	0.7	29.5	19.9	22.3	17.2
Lithuania	562	45.2	17.0	24.2	13.2	0.4	62.1	45.2	46.8	43.5
Morocco	554	17.9	22.8	21.5	30.4	7.3	40.8	17.9	16.8	19.3
Netherlands	475	9.5	5.3	68.9	16.1	0.3	14.8	9.5	10.3	8.7
New Zealand	708	29.8	15.8	37.0	16.9	0.6	45.6	29.8	34.4	25.1
Norway	577	15.4	10.8	36.6	32.0	5.2	26.2	15.4	14.3	16.3
Qatar	984	1.4	5.8	38.5	49.7	4.6	7.2	1.4	1.4	1.4
Russian Federation	642	31.6	21.0	29.0	17.9	0.6	52.5	31.6	32.8	30.4
Scotland	586	43.6	28.1	15.7	9.8	2.8	71.7	43.6	41.8	45.5
Singapore	711	79.9	11.7	7.3	1.0	0.0	91.7	79.9	80.4	79.5
Slovak Republic	716	12.9	14.6	24.8	45.1	2.7	27.5	12.9	13.4	12.4
Slovenia	627	46.3	19.4	19.9	11.6	2.7	65.8	46.3	52.4	40.4
Sweden	663	5.0	7.8	42.7	42.4	2.2	12.7	5.0	4.8	5.1
Tunisia	592	4.0	6.6	35.4	45.8	8.2	10.6	4.0	3.6	4.5
Ukraine	607	11.9	15.3	32.1	40.1	0.6	27.2	11.9	11.6	12.1
United States	1116	50.3	22.4	23.1	3.7	0.4	72.7	50.3	46.8	54.0
Yemen	828	0.7	2.4	39.9	51.8	5.2	3.1	0.7	0.6	0.7
-----										
International Avg.	635	25.9	15.3	30.6	25.1	3.2	41.2	25.9	26.4	25.4
-----										
Alberta, Canada	550	18.3	21.0	46.4	12.8	1.5	39.3	18.3	14.2	21.7
British Columbia, Canada	602	22.1	16.4	42.9	16.7	2.0	38.4	22.1	21.7	22.4
Dubai, UAE	429	16.7	13.7	34.8	31.9	3.0	30.4	16.7	18.4	15.1
Massachusetts, US	248	72.2	11.8	13.5	1.9	0.6	84.0	72.2	73.3	71.2
Minnesota, US	266	69.7	11.7	16.3	1.9	0.4	81.4	69.7	70.0	69.5
Ontario, Canada	496	52.3	23.5	16.0	6.6	1.7	75.8	52.3	50.7	54.0
Quebec, Canada	567	12.2	12.9	49.7	23.9	1.4	25.1	12.2	13.5	10.6
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Knowing (M041174 - M14\_11)  
 Label: Students sold more than 10 boxes  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	18.9	57.9	10.9	12.3	18.9	21.5	16.4
Armenia	582	64.4	23.2	11.3	1.0	64.4	62.9	65.7
Australia	574	89.9	7.2	1.7	1.1	89.9	88.5	91.5
Austria	685	72.0	25.0	1.7	1.4	72.0	71.7	72.2
Chinese Taipei	591	86.8	12.9	0.3	0.0	86.8	89.7	84.1
Colombia	657	24.6	51.7	4.8	18.9	24.6	22.6	26.3
Czech Republic	595	59.2	36.7	2.0	2.1	59.2	56.5	62.1
Denmark	492	82.4	9.5	3.7	4.4	82.4	81.7	83.5
El Salvador	594	32.6	49.6	6.0	11.8	32.6	35.6	29.6
England	618	90.4	7.0	1.9	0.8	90.4	93.1	88.2
Georgia	579	57.6	28.9	6.7	6.9	57.6	57.7	57.4
Germany	750	74.1	22.9	1.1	1.9	74.1	73.1	75.1
Hong Kong SAR	544	94.5	4.9	0.3	0.3	94.5	95.0	94.1
Hungary	577	72.9	23.3	0.6	3.2	72.9	75.9	69.1
Iran, Islamic Rep. of	553	27.4	55.1	6.8	10.7	27.4	28.4	26.5
Italy	635	62.9	31.9	2.7	2.4	62.9	61.0	65.0
Japan	643	87.9	11.2	0.2	0.7	87.9	89.1	86.9
Kazakhstan	566	68.0	29.1	2.8	0.1	68.0	75.3	58.9
Kuwait	533	14.8	62.8	13.3	9.1	14.8	15.5	13.9
Latvia	557	67.0	30.2	2.1	0.7	67.0	68.0	66.0
Lithuania	562	71.7	24.7	2.9	0.7	71.7	74.0	69.4
Morocco	554	14.0	58.7	16.9	10.4	14.0	13.5	14.0
Netherlands	475	88.6	10.0	0.8	0.6	88.6	88.5	88.6
New Zealand	708	81.2	15.5	2.2	1.1	81.2	84.8	77.6
Norway	577	75.8	13.9	3.0	7.4	75.8	74.2	77.1
Qatar	984	12.7	67.7	13.2	6.5	12.7	14.9	10.3
Russian Federation	642	75.3	21.7	1.7	1.4	75.3	76.5	74.2
Scotland	586	80.7	14.0	1.3	4.0	80.7	83.2	78.2
Singapore	711	87.4	12.3	0.3	0.0	87.4	86.4	88.4
Slovak Republic	716	68.3	26.8	1.2	3.7	68.3	70.1	66.5
Slovenia	627	69.1	24.2	3.2	3.5	69.1	68.2	70.0
Sweden	663	86.0	8.9	1.8	3.3	86.0	86.2	85.8
Tunisia	592	18.0	61.3	10.3	10.3	18.0	18.8	17.3
Ukraine	607	56.3	38.3	3.4	2.0	56.3	53.9	58.6
United States	1116	87.8	11.3	0.2	0.7	87.8	87.4	88.2
Yemen	828	4.2	73.0	14.9	7.9	4.2	4.1	4.3
International Avg.	635	61.8	29.5	4.4	4.3	61.8	62.4	61.1
Alberta, Canada	550	83.7	13.2	1.6	1.5	83.7	82.8	84.4
British Columbia, Canada	602	84.2	11.5	2.2	2.1	84.2	83.6	84.8
Dubai, UAE	429	53.1	38.8	4.2	3.9	53.1	54.1	52.2
Massachusetts, US	248	95.0	2.7	1.3	1.0	95.0	94.8	95.2
Minnesota, US	266	87.1	11.7	0.8	0.4	87.1	87.1	87.2
Ontario, Canada	496	81.7	14.4	1.9	2.0	81.7	85.0	78.4
Quebec, Canada	567	78.3	17.0	2.0	2.7	78.3	78.2	78.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Mathematics: Data Display / Applying (M041191 - M14\_12)

Label: Peter's height

Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	584	42.3	13.8	8.6	15.2	42.3	7.1	13.1	43.5	41.0
Armenia	580	80.4	5.4	3.0	4.9	80.4	4.8	1.5	81.1	79.8
Australia	574	89.8	3.2	1.4	2.0	89.8	1.7	1.9	89.1	90.6
Austria	685	91.3	1.6	1.4	2.5	91.3	1.8	1.4	91.1	91.4
Chinese Taipei	591	94.7	0.8	1.5	2.3	94.7	0.8	0.0	93.5	95.7
Colombia	657	46.5	9.1	5.4	12.6	46.5	6.7	19.7	43.6	49.1
Czech Republic	595	87.3	3.5	2.6	2.7	87.3	1.7	2.1	88.9	85.6
Denmark	488	85.3	1.3	2.5	2.6	85.3	2.5	5.8	86.6	83.5
El Salvador	593	57.7	7.9	8.7	9.5	57.7	3.2	13.1	60.1	55.3
England	618	88.1	2.1	3.0	3.4	88.1	2.1	1.4	92.2	84.8
Georgia	579	72.9	7.2	3.6	5.5	72.9	4.0	6.9	69.2	76.4
Germany	750	90.7	0.9	1.5	3.5	90.7	1.3	2.1	91.0	90.4
Hong Kong SAR	544	93.9	0.8	2.0	2.7	93.9	0.3	0.3	93.9	93.8
Hungary	577	85.7	2.1	3.2	4.7	85.7	1.0	3.3	86.3	84.9
Iran, Islamic Rep. of	553	68.8	7.3	5.7	5.0	68.8	2.0	11.2	73.1	64.6
Italy	634	85.3	3.8	3.1	2.6	85.3	2.6	2.7	83.7	87.0
Japan	643	96.5	0.0	1.1	1.4	96.5	0.4	0.7	97.6	95.5
Kazakhstan	566	87.2	5.9	2.4	4.2	87.2	0.3	0.1	86.8	87.6
Kuwait	533	40.1	13.9	13.0	16.7	40.1	6.4	9.9	43.3	36.4
Latvia	557	88.3	2.5	2.1	5.4	88.3	1.0	0.8	89.0	87.4
Lithuania	562	90.1	1.0	2.5	3.3	90.1	1.6	1.6	91.8	88.3
Morocco	546	34.9	12.7	9.1	20.0	34.9	10.6	12.6	36.0	34.2
Netherlands	475	91.2	0.9	1.9	4.5	91.2	0.8	0.6	89.3	93.0
New Zealand	708	86.1	4.4	2.3	3.5	86.1	2.2	1.5	87.6	84.6
Norway	577	77.6	3.6	3.2	3.7	77.6	4.1	7.8	81.3	74.4
Qatar	984	39.2	17.7	16.8	14.5	39.2	4.7	7.1	42.0	36.1
Russian Federation	642	88.1	3.2	3.4	2.1	88.1	1.7	1.5	87.6	88.5
Scotland	586	85.1	2.2	1.6	2.6	85.1	4.2	4.2	85.8	84.5
Singapore	711	92.1	1.3	2.2	4.2	92.1	0.2	0.0	93.4	90.9
Slovak Republic	716	85.7	4.0	1.6	3.6	85.7	1.2	3.8	87.1	84.4
Slovenia	627	88.0	1.7	1.3	2.3	88.0	2.6	4.0	89.9	86.2
Sweden	663	88.4	1.2	2.7	3.1	88.4	1.0	3.6	90.1	86.7
Tunisia	592	37.2	10.1	11.3	16.8	37.2	13.5	11.1	45.4	29.1
Ukraine	607	69.8	12.0	4.7	7.3	69.8	3.8	2.3	70.3	69.4
United States	1116	89.5	2.6	2.3	2.8	89.5	2.0	0.8	89.4	89.5
Yemen	828	35.0	11.7	17.6	18.2	35.0	9.0	8.4	38.7	32.1
International Avg.	634	76.4	5.1	4.5	6.2	76.4	3.2	4.7	77.5	75.4
Alberta, Canada	550	85.9	2.8	2.7	4.0	85.9	2.8	1.7	82.0	89.2
British Columbia, Canada	602	87.7	3.0	0.8	2.9	87.7	3.5	2.1	86.5	88.7
Dubai, UAE	429	73.9	9.3	4.8	4.2	73.9	3.8	3.9	78.5	69.6
Massachusetts, US	248	92.5	1.5	0.0	3.3	92.5	0.8	1.8	91.7	93.4
Minnesota, US	266	91.0	4.2	1.8	1.9	91.0	0.4	0.8	88.5	93.2
Ontario, Canada	496	89.3	1.6	1.1	4.2	89.3	1.3	2.5	89.8	88.8
Quebec, Canada	567	85.4	2.9	2.7	3.8	85.4	1.7	3.6	86.2	84.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.