

Mathematics: Number / Knowing  
MP04\_01 MP72178: Shelves labeled with perfect square - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1989	1.6	1.2	3.9	73.3	1.2	77.2	20.4	1.1	2.1	1.0
Iran, Islamic Rep. of	1556	14.6	11.9	7.8	61.8	11.9	69.6	17.7	0.7	16.1	13.3
Kuwait	1073	14.9	12.7	7.0	65.6	12.7	72.6	14.4	0.3	12.2	17.9
South Africa (9)	2990	12.5	10.0	6.0	63.7	10.0	69.7	20.1	0.3	14.2	10.9
International Avg. (4)	7608	10.9	9.0	6.2	66.1	9.0	72.3	18.2	0.6	11.2	10.8

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Reasoning  
MP04\_02 MP72234: Statement about whole number x - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1989	25.2	17.3	21.0	19.2	19.4	21.2	1.8	24.3	26.0
Iran, Islamic Rep. of	1555	37.5	18.0	22.6	15.7	33.8	9.0	0.9	37.8	37.3
Kuwait	1074	37.2	21.4	19.7	18.8	35.5	4.3	0.3	39.7	34.7
South Africa (9)	2993	27.0	25.4	28.3	15.5	25.6	4.9	0.3	30.6	23.6
International Avg. (4)	7611	31.7	20.5	22.9	17.3	28.6	9.8	0.8	33.1	30.4

Mathematics: Number / Knowing

MP04\_03 MP72020: Compare values of decimals and fractions - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	12.5	4.3	14.3	72.7	4.3	14.3	72.7	6.4	2.4	13.1	12.0
Iran, Islamic Rep. of	1555	26.4	16.1	16.3	59.7	16.1	16.3	59.7	6.9	1.0	20.5	32.0
Kuwait	1073	26.8	17.2	16.9	61.5	17.2	16.9	61.5	4.1	0.3	23.0	30.7
South Africa (9)	2989	29.4	14.9	28.2	55.5	14.9	28.2	55.5	1.0	0.4	29.1	29.2
International Avg. (4)	7607	23.8	13.1	18.9	62.4	13.1	18.9	62.4	4.6	1.0	21.4	26.0

DIFF = Percent correct

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Mathematics: Number / Applying  
MP04\_04 MP72027: Fraction of water in full container - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	19.5	17.0	41.6	17.6	11.0	9.8	3.0	20.8	18.3
Iran, Islamic Rep. of	1551	54.5	52.8	26.3	9.7	8.0	2.1	1.0	47.9	60.8
Kuwait	1074	37.0	35.7	33.0	13.2	14.7	3.2	0.3	32.7	41.4
South Africa (9)	2991	25.3	25.0	22.6	15.6	35.3	1.1	0.4	23.3	26.8
International Avg. (4)	7606	34.1	32.6	30.9	14.0	17.3	4.0	1.2	31.2	36.8

DIFF = Percent correct  
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Mathematics: Number / Applying

MP04\_05 MP72052: Table of proportional x and y (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	3.7	3.1	80.2	3.1	80.2	12.6	4.0	3.5	3.9
Iran, Islamic Rep. of	1551	8.5	7.0	74.7	7.0	74.7	17.3	1.0	9.5	7.7
Kuwait	1073	11.0	10.1	81.4	10.1	81.4	8.0	0.5	7.3	15.0
South Africa (9)	2986	4.8	4.6	91.2	4.6	91.2	3.7	0.5	4.4	5.3
International Avg. (4)	7600	7.0	6.2	81.9	6.2	81.9	10.4	1.5	6.2	8.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying

MP04\_05A MP72052A: Table of proportional x and y - x value - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	9.6	7.8	73.2	7.8	73.2	15.0	4.0	10.6	8.8
Iran, Islamic Rep. of	1551	14.3	11.6	69.6	11.6	69.6	17.8	1.0	14.9	13.8
Kuwait	1073	17.2	15.8	75.7	15.8	75.7	8.0	0.5	14.7	19.8
South Africa (9)	2989	6.3	6.0	89.4	6.0	89.4	4.0	0.5	6.7	6.1
International Avg. (4)	7603	11.9	10.3	77.0	10.3	77.0	11.2	1.5	11.7	12.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying  
MP04\_05B MP72052B: Table of proportional x and y - y value - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	12.3	10.0	71.8	10.0	71.8	14.1	4.0	12.5	12.1
Iran, Islamic Rep. of	1551	20.9	16.8	63.3	16.8	63.3	18.9	1.0	22.6	19.5
Kuwait	1073	16.5	14.9	75.8	14.9	75.8	8.8	0.5	13.5	19.5
South Africa (9)	2986	7.0	6.6	88.3	6.6	88.3	4.5	0.5	6.4	7.5
International Avg. (4)	7600	14.2	12.1	74.8	12.1	74.8	11.6	1.5	13.7	14.7

DIFF = Percent correct  
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Mathematics: Algebra / Knowing  
MP04\_06 MP72067: Value of y when a = 10, b = 4, and f = -2 - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	17.5	12.7	14.9	18.3	39.6	9.8	4.7	18.0	16.9
Iran, Islamic Rep. of	1551	49.7	10.6	47.2	13.6	23.6	3.8	1.2	50.9	48.6
Kuwait	1074	42.4	12.4	40.9	15.7	27.5	2.7	0.8	38.9	45.9
South Africa (9)	2992	34.7	8.6	34.1	11.0	44.5	1.2	0.6	35.9	34.0
International Avg. (4)	7607	36.1	11.1	34.3	14.7	33.8	4.4	1.8	35.9	36.3

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Mathematics: Algebra / Reasoning

MP04\_07A MP72083A: Model planes - Explain amount of time - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	12.9	5.7	38.4	5.7	38.4	50.7	5.3	15.5	10.7
Iran, Islamic Rep. of	1551	57.8	32.9	24.0	32.9	24.0	41.8	1.3	53.2	62.2
Kuwait	1074	46.2	27.7	32.3	27.7	32.3	39.2	0.9	42.7	50.5
South Africa (9)	2986	25.2	23.9	70.9	23.9	70.9	4.5	0.7	23.5	26.7
International Avg. (4)	7601	35.5	22.5	41.4	22.5	41.4	34.0	2.0	33.7	37.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Applying  
MP04\_07B MP72083B: Model planes - inequality - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1987	27.8	14.5	20.7	19.8	21.1	17.5	6.4	31.0	24.9
Iran, Islamic Rep. of	1552	36.5	16.5	16.9	23.5	32.7	9.0	1.4	40.3	32.8
Kuwait	1074	28.5	26.9	18.5	19.4	25.8	8.5	0.9	33.3	23.4
South Africa (9)	2993	39.5	20.8	16.9	20.2	37.9	3.4	0.8	42.8	35.7
International Avg. (4)	7606	33.1	19.7	18.2	20.7	29.4	9.6	2.4	36.9	29.2

DIFF = Percent correct  
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Mathematics: Algebra / Applying  
MP04\_08A MP72108A: Small triangles in figure - figure 10 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1991	22.9	17.4	58.6	17.4	58.6	16.9	7.1	22.4	23.4
Iran, Islamic Rep. of	1555	55.6	47.8	38.2	47.8	38.2	12.6	1.4	55.9	55.2
Kuwait	1074	45.1	38.2	46.5	38.2	46.5	14.3	0.9	45.6	44.6
South Africa (9)	2989	30.6	26.9	61.1	26.9	61.1	11.1	1.0	31.8	29.2
International Avg. (4)	7609	38.5	32.6	51.1	32.6	51.1	13.7	2.6	38.9	38.1

DIFF = Percent correct  
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Mathematics: Algebra / Reasoning

MP04\_08B MP72108B: Small triangles in figure - rule - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1991	4.3	0.5	1.6	46.1	2.1	46.1	42.5	9.3	5.3	3.3
Iran, Islamic Rep. of	1555	57.2	25.1	10.5	26.7	35.7	26.7	35.6	2.1	58.9	55.5
Kuwait	1074	27.5	14.2	6.5	54.5	20.7	54.5	23.1	1.7	27.0	28.1
South Africa (9)	2989	12.6	8.3	3.0	79.1	11.4	79.1	8.1	1.4	12.4	12.5
International Avg. (4)	7609	25.4	12.0	5.4	51.6	17.4	51.6	27.3	3.6	25.9	24.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Applying  
MP04\_09 MP72181: Translation of triangle on grid - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	0.1	0.0	44.4	0.0	44.4	42.4	13.2	0.2	0.0
Iran, Islamic Rep. of	1554	20.0	17.0	67.9	17.0	67.9	12.6	2.5	16.9	23.1
Kuwait	1070	29.6	25.0	59.5	25.0	59.5	13.8	1.7	28.0	31.4
South Africa (9)	2988	7.0	6.1	81.9	6.1	81.9	10.4	1.6	5.4	8.6
International Avg. (4)	7602	14.2	12.0	63.4	12.0	63.4	19.8	4.7	12.6	15.8

Mathematics: Geometry / Reasoning

MP04\_10 MP72126: Area of shaded part of square ABCD - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	4.3	0.6	4.3	58.4	0.6	4.3	58.4	21.3	15.4	5.0	3.7
Iran, Islamic Rep. of	1550	12.8	5.6	3.6	48.5	5.6	3.6	48.5	39.6	2.7	14.0	11.7
Kuwait	1071	11.4	5.4	9.1	73.2	5.4	9.1	73.2	10.3	2.0	9.2	13.8
South Africa (9)	2989	6.8	1.9	8.8	81.9	1.9	8.8	81.9	5.4	2.0	6.4	7.4
International Avg. (4)	7600	8.8	3.4	6.5	65.5	3.4	6.5	65.5	19.1	5.5	8.6	9.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying  
MP04\_11 MP72164: Important for counting planes (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	3.5	2.3	1.1	62.3	2.3	63.4	17.3	17.1	3.5	3.5
Iran, Islamic Rep. of	1551	11.5	10.4	2.6	78.0	10.4	80.5	4.7	4.3	10.5	12.3
Kuwait	1067	9.0	8.4	2.4	82.5	8.4	84.8	3.9	2.8	7.0	11.2
South Africa (9)	2976	10.1	9.7	2.1	83.9	9.7	86.0	1.8	2.5	10.1	10.5
International Avg. (4)	7584	8.5	7.7	2.0	76.7	7.7	78.7	6.9	6.7	7.8	9.4

DIFF = Percent correct  
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Mathematics: Data and Probability / Applying

MP04\_11A MP72164A: Important for counting planes - times to start/finish - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	53.6	32.1	27.8	23.1	17.1	50.5	56.3
Iran, Islamic Rep. of	1551	71.8	63.4	24.9	7.4	4.3	69.1	74.4
Kuwait	1068	78.1	70.7	19.9	6.6	2.8	75.5	80.8
South Africa (9)	2985	75.3	69.2	22.7	5.7	2.5	73.7	77.0
International Avg. (4)	7594	69.7	58.9	23.8	10.7	6.7	67.2	72.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP04\_11B MP72164B: Important for counting planes - direction - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	38.7	34.9	22.0	26.0	17.1	37.4	39.9
Iran, Islamic Rep. of	1551	52.4	41.8	46.1	7.8	4.3	53.7	51.3
Kuwait	1067	50.5	44.4	45.3	7.5	2.8	50.3	50.7
South Africa (9)	2984	52.0	43.8	47.4	6.3	2.5	51.3	53.2
International Avg. (4)	7592	48.4	41.2	40.2	11.9	6.7	48.2	48.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP04\_11C MP72164C: Important for counting planes - type of plane - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	51.9	27.5	29.7	25.7	17.1	50.1	53.5
Iran, Islamic Rep. of	1551	66.6	29.3	58.4	8.0	4.3	68.6	64.7
Kuwait	1067	64.7	31.2	57.3	8.7	2.8	65.0	64.5
South Africa (9)	2979	53.8	42.0	48.9	6.6	2.5	51.7	56.7
International Avg. (4)	7587	59.2	32.5	48.6	12.2	6.7	58.8	59.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Applying  
MP04\_11D MP72164D: Important for counting planes - days to count - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	50.1	28.4	28.2	26.3	17.1	49.2	51.0
Iran, Islamic Rep. of	1551	60.3	52.7	34.7	8.3	4.3	61.3	59.3
Kuwait	1068	53.3	47.2	41.4	8.6	2.8	50.7	56.0
South Africa (9)	2979	63.4	57.7	33.3	6.5	2.5	65.1	61.8
International Avg. (4)	7588	56.8	46.5	34.4	12.4	6.7	56.6	57.0

Mathematics: Data and Probability / Applying

MP04\_11E MP72164E: Important for counting planes - time to pass over - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1990	34.4	37.9	19.9	25.1	17.1	33.9	34.8
Iran, Islamic Rep. of	1551	38.9	54.0	34.4	7.3	4.3	36.2	41.4
Kuwait	1068	40.0	53.5	35.7	8.0	2.8	35.7	44.7
South Africa (9)	2985	38.5	56.6	35.4	5.5	2.5	35.6	41.6
International Avg. (4)	7594	37.9	50.5	31.3	11.5	6.7	35.3	40.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Knowing

MP04\_12A MP72185A: Probability of picking marble - not green - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1989	0.1	0.0	0.1	52.5	0.1	52.5	25.0	22.4	0.3	0.0
Iran, Islamic Rep. of	1551	26.1	22.4	0.3	64.3	22.7	64.3	8.1	4.8	24.0	28.0
Kuwait	1071	14.8	12.0	0.9	75.0	13.0	75.0	8.2	3.7	13.2	16.4
South Africa (9)	2989	5.0	3.0	1.6	87.1	4.6	87.1	5.4	2.9	4.1	5.7
International Avg. (4)	7600	11.5	9.3	0.7	69.8	10.1	69.8	11.7	8.5	10.4	12.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Knowing  
MP04\_12B MP72185B: Probability of picking marble - yellow or blue - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1989	0.6	0.0	0.3	50.0	0.3	50.0	17.0	32.7	0.0	1.2
Iran, Islamic Rep. of	1551	26.3	21.9	0.1	61.6	22.0	61.6	6.7	9.7	24.9	27.6
Kuwait	1071	14.9	12.7	0.2	73.8	12.9	73.8	5.7	7.6	11.5	18.6
South Africa (9)	2989	5.3	3.2	1.6	86.4	4.8	86.4	3.3	5.4	5.0	5.7
International Avg. (4)	7600	11.8	9.4	0.6	67.9	10.0	67.9	8.2	13.9	10.3	13.3

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Mathematics: Number / Applying  
MP08\_01 MP72002: Show 28 is a perfect number - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2097	3.4	1.4	39.3	1.4	39.3	50.4	8.8	3.2	3.6
Iran, Islamic Rep. of	1549	20.6	12.9	49.9	12.9	49.9	37.1	0.1	22.2	18.9
Kuwait	1076	23.4	16.3	53.1	16.3	53.1	29.8	0.8	19.7	27.7
South Africa (9)	2975	16.2	15.1	78.0	15.1	78.0	6.8	0.1	15.9	16.5
International Avg. (4)	7697	15.9	11.4	55.1	11.4	55.1	31.0	2.5	15.3	16.7

Mathematics: Number / Knowing  
MP08\_02 MP72188: 3 tenths + 107 thousandths = - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2096	21.0	12.7	43.2	16.0	4.4	13.3	10.4	21.4	20.6
Iran, Islamic Rep. of	1549	41.7	15.8	36.8	39.7	2.9	4.3	0.4	42.1	41.3
Kuwait	1075	31.6	23.5	40.8	30.6	2.2	2.0	0.9	30.7	32.4
South Africa (9)	2974	13.0	16.9	66.8	12.7	1.4	1.9	0.3	11.5	14.8
International Avg. (4)	7694	26.8	17.2	46.9	24.8	2.7	5.4	3.0	26.4	27.3



Mathematics: Number / Applying  
MP08\_03 MP72035: Value of M in  $\frac{3}{4} \times M = \frac{1}{2}$  - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2096	3.2	1.9	0.0	59.3	1.9	59.3	27.1	11.7	3.7	2.7
Iran, Islamic Rep. of	1549	28.4	20.0	0.0	50.3	20.0	50.3	29.2	0.5	28.6	28.2
Kuwait	1076	25.0	19.9	0.0	59.8	19.9	59.8	19.4	0.9	24.7	25.3
South Africa (9)	2973	18.8	16.9	0.0	73.1	16.9	73.1	9.5	0.5	20.5	17.4
International Avg. (4)	7694	18.8	14.7	0.0	60.6	14.7	60.6	21.3	3.4	19.4	18.4

Mathematics: Number / Knowing

MP08\_04 MP72055: Numbers equivalent to 60% - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	0.5	0.4	73.9	0.4	73.9	13.1	12.7	0.4	0.6
Iran, Islamic Rep. of	1549	12.1	11.5	83.3	11.5	83.3	4.6	0.6	11.2	13.0
Kuwait	1075	11.9	11.4	84.3	11.4	84.3	3.4	0.9	8.9	14.8
South Africa (9)	2975	12.0	11.3	83.0	11.3	83.0	5.0	0.6	11.6	12.2
International Avg. (4)	7697	9.1	8.6	81.1	8.6	81.1	6.5	3.7	8.0	10.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Knowing  
MP08\_05 MP72222: Value of sqrt expression for x = 10 and y = 8 - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	19.0	20.6	14.4	20.7	20.2	10.7	13.4	18.7	19.2
Iran, Islamic Rep. of	1549	28.1	34.7	27.2	14.9	19.9	2.7	0.6	27.4	28.7
Kuwait	1075	32.6	32.5	31.9	16.6	16.8	1.2	1.1	30.6	34.6
South Africa (9)	2975	44.5	24.7	43.5	10.5	19.1	1.4	0.8	45.5	43.8
International Avg. (4)	7697	31.0	28.1	29.3	15.7	19.0	4.0	3.9	30.5	31.6

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Applying  
MP08\_06 MP72090: Inequality for relationship between areas of rectangles - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2097	16.6	12.1	14.1	26.7	20.1	12.2	14.7	16.6	16.6
Iran, Islamic Rep. of	1549	30.2	28.6	19.7	26.3	20.0	4.8	0.6	33.2	27.5
Kuwait	1075	29.0	27.7	20.2	25.2	22.5	3.4	1.1	27.1	30.7
South Africa (9)	2974	20.0	19.5	20.1	31.5	26.3	1.7	1.0	22.0	18.3
International Avg. (4)	7695	24.0	22.0	18.5	27.4	22.2	5.5	4.4	24.7	23.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Reasoning  
MP08\_07 MP72233: Weight of one block on a balance - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2099	44.8	27.0	32.8	9.0	4.4	9.2	17.6	41.9	47.3
Iran, Islamic Rep. of	1549	50.8	27.0	48.1	13.1	6.5	4.6	0.7	50.9	50.7
Kuwait	1074	47.8	29.2	45.5	12.6	7.9	3.3	1.6	42.1	53.3
South Africa (9)	2975	44.5	29.7	43.3	15.2	9.0	1.3	1.6	38.1	51.2
International Avg. (4)	7697	47.0	28.2	42.4	12.5	6.9	4.6	5.4	43.2	50.6

Mathematics: Algebra / Applying  
MP08\_08A MP72106A: Figures made of straws - Figure 7 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2099	8.8	5.3	54.8	5.3	54.8	20.8	19.2	8.4	9.1
Iran, Islamic Rep. of	1549	64.9	58.9	31.8	58.9	31.8	8.2	1.1	63.9	65.8
Kuwait	1076	37.4	33.4	55.9	33.4	55.9	9.1	1.6	34.8	40.1
South Africa (9)	2975	52.0	49.8	46.0	49.8	46.0	2.2	2.0	52.2	51.5
International Avg. (4)	7699	40.7	36.8	47.1	36.8	47.1	10.1	6.0	39.8	41.6

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Reasoning

MP08\_08B MP72106B: Figures made of straws - Figure 50 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2099	2.0	1.1	55.1	1.1	55.1	21.6	22.2	2.3	1.8
Iran, Islamic Rep. of	1549	42.1	33.3	45.8	33.3	45.8	19.4	1.5	46.2	38.2
Kuwait	1076	13.1	10.9	72.5	10.9	72.5	14.9	1.8	11.0	15.3
South Africa (9)	2975	18.1	16.7	75.5	16.7	75.5	5.1	2.8	17.6	18.7
International Avg. (4)	7699	18.8	15.5	62.2	15.5	62.2	15.2	7.0	19.3	18.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Reasoning  
MP08\_08C MP72106C: Figures made of straws - rule - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2099	0.1	0.1	2.7	43.1	0.1	45.8	31.4	22.7	0.3	0.0
Iran, Islamic Rep. of	1549	42.9	27.7	6.9	30.0	27.7	36.9	33.8	1.6	44.9	40.7
Kuwait	1077	10.6	7.3	11.6	50.1	7.3	61.7	29.3	1.8	9.5	11.7
South Africa (9)	2975	10.1	9.1	10.1	70.9	9.1	81.0	6.8	3.1	10.7	9.6
International Avg. (4)	7700	15.9	11.0	7.8	48.5	11.0	56.3	25.3	7.3	16.3	15.5



Mathematics: Geometry / Knowing  
MP08\_09A MP72128A: Parallelogram - area - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	3.8	2.2	56.9	2.2	56.9	17.4	23.5	4.1	3.5
Iran, Islamic Rep. of	1549	20.4	12.5	48.7	12.5	48.7	37.2	1.6	20.1	20.7
Kuwait	1076	15.4	13.0	71.1	13.0	71.1	14.0	2.0	13.0	18.1
South Africa (9)	2975	8.0	7.4	85.6	7.4	85.6	3.5	3.5	8.2	7.8
International Avg. (4)	7698	11.9	8.8	65.6	8.8	65.6	18.0	7.6	11.3	12.5

Mathematics: Geometry / Reasoning

MP08\_09B MP72128B: Parallelogram - perimeter - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	1.3	0.2	1.1	56.8	0.2	1.1	56.8	17.6	24.3	1.5	1.1
Iran, Islamic Rep. of	1549	16.9	5.9	7.2	42.9	5.9	7.2	42.9	42.1	1.8	16.9	16.9
Kuwait	1077	10.3	5.4	6.1	70.5	5.4	6.1	70.5	15.8	2.3	8.8	11.9
South Africa (9)	2974	5.8	3.6	3.5	85.3	3.6	3.5	85.3	3.7	3.9	4.8	6.9
International Avg. (4)	7698	8.6	3.8	4.5	63.9	3.8	4.5	63.9	19.8	8.1	8.0	9.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Applying  
MP08\_10 MP72119: Point to complete a parallelogram - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	2.9	1.6	53.3	1.6	53.3	20.7	24.4	2.3	3.5
Iran, Islamic Rep. of	1549	26.5	22.4	62.2	22.4	62.2	13.5	1.9	29.6	23.4
Kuwait	1077	18.4	16.1	71.6	16.1	71.6	10.0	2.3	17.9	18.8
South Africa (9)	2975	10.3	9.2	80.4	9.2	80.4	6.3	4.1	8.2	12.4
International Avg. (4)	7699	14.5	12.3	66.9	12.3	66.9	12.6	8.2	14.5	14.5

Mathematics: Data and Probability / Applying  
MP08\_11A MP72153A: Bar graph of cars sold - per quarter - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	6.5	3.9	55.1	3.9	55.1	15.8	25.2	6.2	6.8
Iran, Islamic Rep. of	1549	15.4	12.3	67.4	12.3	67.4	18.2	2.1	14.0	16.7
Kuwait	1079	22.8	20.1	67.9	20.1	67.9	9.4	2.6	21.0	24.7
South Africa (9)	2974	9.6	8.8	83.3	8.8	83.3	3.2	4.7	8.5	10.7
International Avg. (4)	7700	13.6	11.3	68.4	11.3	68.4	11.7	8.7	12.4	14.7

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Applying  
MP08\_11B MP72153B: Bar graph of cars sold - percent in 3rd quarter - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2098	0.1	0.0	57.1	0.0	57.1	15.9	27.0	0.2	0.0
Iran, Islamic Rep. of	1549	2.9	2.1	69.5	2.1	69.5	25.1	3.3	2.1	3.6
Kuwait	1079	5.5	4.8	82.5	4.8	82.5	9.6	3.0	5.3	5.8
South Africa (9)	2974	5.0	4.6	87.4	4.6	87.4	2.2	5.7	4.4	5.8
International Avg. (4)	7700	3.4	2.9	74.1	2.9	74.1	13.2	9.8	3.0	3.8

Mathematics: Data and Probability / Applying  
MP08\_12 MP72172: Probability of object landing upright - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2096	11.5	4.9	40.7	11.4	7.4	8.0	27.6	14.0	9.3
Iran, Islamic Rep. of	1549	40.4	15.4	28.2	12.5	37.9	2.1	3.9	40.4	40.3
Kuwait	1080	36.5	10.5	40.9	9.1	34.8	1.4	3.2	33.2	39.7
South Africa (9)	2973	23.5	9.3	54.1	7.1	21.7	1.9	5.9	26.3	21.5
International Avg. (4)	7698	28.0	10.0	41.0	10.0	25.5	3.4	10.1	28.5	27.7

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Knowing  
MP09\_01 MP62329: Two million, fifty thousand, three hundred seven - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2084	44.2	15.2	40.2	9.1	26.5	8.5	0.5	39.8	48.3
Iran, Islamic Rep. of	1560	71.8	7.9	70.8	7.2	12.6	1.2	0.2	70.2	73.3
Kuwait	1088	62.2	16.9	60.9	4.8	15.2	1.8	0.2	54.0	70.6
South Africa (9)	2938	56.5	19.9	56.1	7.1	16.3	0.5	0.1	52.7	60.9
International Avg. (4)	7670	58.7	15.0	57.0	7.1	17.6	3.0	0.3	54.1	63.3

Mathematics: Number / Reasoning  
MP09\_02 MP62151: Number of cups of water to fill 3 pitchers - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	1.0	0.7	1.6	72.0	0.7	73.6	24.9	0.8	1.5	0.4
Iran, Islamic Rep. of	1560	20.9	18.0	5.0	63.2	18.0	68.2	13.5	0.4	16.8	24.5
Kuwait	1087	10.0	8.8	3.4	76.3	8.8	79.7	11.2	0.2	6.8	13.4
South Africa (9)	2931	5.5	5.4	1.4	90.5	5.4	91.9	2.7	0.1	3.4	7.8
International Avg. (4)	7663	9.3	8.2	2.9	75.5	8.2	78.3	13.1	0.4	7.1	11.5

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Applying

MP09\_03 MP62346: Explain which brand has cheaper price per battery - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	1.5	1.4	0.2	92.2	1.4	92.3	5.1	1.2	1.2	1.8
Iran, Islamic Rep. of	1560	19.1	18.6	0.6	78.1	18.6	78.7	2.3	0.5	17.9	20.2
Kuwait	1087	6.9	6.7	29.0	61.7	6.7	90.6	2.4	0.2	5.8	8.1
South Africa (9)	2932	7.1	7.0	1.0	90.4	7.0	91.5	1.5	0.1	7.0	7.4
International Avg. (4)	7666	8.7	8.4	7.7	80.6	8.4	88.3	2.8	0.5	8.0	9.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying  
MP09\_04 MP62212: Four containers partially filled with water - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2083	7.1	64.2	6.3	6.1	12.8	8.9	1.6	6.7	7.4
Iran, Islamic Rep. of	1560	18.6	53.2	17.9	6.4	18.6	3.4	0.5	18.3	18.9
Kuwait	1088	21.7	48.5	21.0	8.5	18.5	3.1	0.4	21.6	21.9
South Africa (9)	2937	13.7	59.9	13.6	6.3	19.3	0.9	0.1	13.4	14.2
International Avg. (4)	7668	15.3	56.4	14.7	6.8	17.3	4.1	0.6	15.0	15.6

Mathematics: Algebra / Knowing

MP09\_05 MP62056: Write the expression with x and y in simplest form - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	0.3	0.2	0.0	67.7	0.2	67.7	29.6	2.4	0.7	0.0
Iran, Islamic Rep. of	1560	14.1	9.9	4.0	56.8	9.9	60.8	28.7	0.6	14.7	13.4
Kuwait	1087	6.8	5.5	2.8	72.3	5.5	75.1	18.7	0.6	5.9	7.8
South Africa (9)	2932	4.7	4.5	3.7	87.6	4.5	91.3	3.9	0.2	4.5	5.0
International Avg. (4)	7664	6.5	5.0	2.6	71.1	5.0	73.7	20.2	1.0	6.4	6.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Knowing  
MP09\_06 MP62317: Points on a parabola graph - fill in table - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	0.3	0.3	77.7	0.3	77.7	18.6	3.4	0.6	0.1
Iran, Islamic Rep. of	1560	5.8	4.3	69.5	4.3	69.5	25.4	0.8	6.0	5.6
Kuwait	1088	7.1	6.3	81.5	6.3	81.5	11.4	0.8	6.0	8.3
South Africa (9)	2932	9.8	9.3	85.9	9.3	85.9	4.5	0.3	10.3	9.4
International Avg. (4)	7665	5.8	5.0	78.7	5.0	78.7	15.0	1.3	5.7	5.8

Mathematics: Algebra / Applying  
MP09\_07 MP62350: Given point and slope, select collinear point - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	16.2	18.9	26.5	22.4	13.1	14.6	4.5	16.0	16.4
Iran, Islamic Rep. of	1560	18.8	12.0	26.6	33.4	16.7	10.3	1.0	19.4	18.3
Kuwait	1088	14.0	14.9	34.8	31.4	13.2	4.8	0.9	13.0	15.1
South Africa (9)	2934	12.9	18.3	36.6	29.6	12.5	2.5	0.4	10.9	15.1
International Avg. (4)	7668	15.5	16.0	31.1	29.2	13.9	8.1	1.7	14.8	16.2

Mathematics: Algebra / Reasoning  
MP09\_08 MP62078: Given perimeter of triangle ABC find length of AB - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	2.6	2.0	74.2	2.0	74.2	18.5	5.3	1.8	3.4
Iran, Islamic Rep. of	1560	18.6	13.0	56.5	13.0	56.5	29.4	1.1	21.7	15.8
Kuwait	1088	14.5	12.7	75.0	12.7	75.0	11.2	1.1	13.2	15.9
South Africa (9)	2931	10.9	10.3	84.1	10.3	84.1	5.0	0.7	12.0	9.9
International Avg. (4)	7665	11.7	9.5	72.5	9.5	72.5	16.0	2.0	12.2	11.3

Mathematics: Geometry / Knowing  
MP09\_09 MP62284: Choose the pair of congruent quadrilaterals - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2075	25.9	35.0	19.6	12.1	8.8	18.3	6.2	23.3	28.4
Iran, Islamic Rep. of	1560	51.5	24.2	49.2	8.3	13.9	3.2	1.2	54.2	49.1
Kuwait	1087	49.9	31.5	48.2	5.1	11.7	2.3	1.2	53.9	45.8
South Africa (9)	2930	43.6	33.8	42.8	9.8	11.8	1.1	0.7	44.9	42.6
International Avg. (4)	7652	42.7	31.1	40.0	8.8	11.6	6.2	2.3	44.1	41.5

Mathematics: Geometry / Applying  
MP09\_10 MP62245: Coordinates of 4th vertex for Pia's rectangle - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2079	18.2	13.9	22.8	22.9	16.5	16.7	7.2	16.1	20.2
Iran, Islamic Rep. of	1560	29.7	27.5	32.2	20.0	12.8	6.2	1.4	29.7	29.8
Kuwait	1087	37.8	36.2	21.2	20.2	18.1	3.0	1.3	37.0	38.5
South Africa (9)	2936	28.3	27.8	26.2	25.4	18.7	1.2	0.8	29.1	28.1
International Avg. (4)	7662	28.5	26.3	25.6	22.1	16.5	6.8	2.7	28.0	29.2



Mathematics: Geometry / Reasoning

MP09\_11 MP62287: Shaded areas with overlapping congruent triangles - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	0.6	0.0	0.2	38.5	0.2	38.5	53.1	8.2	0.9	0.3
Iran, Islamic Rep. of	1560	6.1	1.1	2.2	51.5	3.3	51.5	43.4	1.7	8.3	3.8
Kuwait	1088	12.7	3.6	4.8	57.8	8.4	57.8	32.5	1.3	12.2	13.3
South Africa (9)	2933	3.7	2.7	0.7	89.1	3.4	89.1	6.7	0.9	3.9	3.5
International Avg. (4)	7668	5.7	1.9	2.0	59.2	3.8	59.2	33.9	3.0	6.3	5.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP09\_12A MP62345A: Fishing spots - calculate mean and median - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	2.1	0.0	2.6	59.6	0.0	2.6	59.6	26.5	11.3	2.1	2.1
Iran, Islamic Rep. of	1560	19.0	3.6	20.1	48.4	3.6	20.1	48.4	25.2	2.6	20.3	17.8
Kuwait	1083	34.3	14.6	32.1	42.6	14.6	32.1	42.6	9.0	1.8	38.1	30.2
South Africa (9)	2933	7.9	1.8	11.5	81.7	1.8	11.5	81.7	3.9	1.1	8.7	7.1
International Avg. (4)	7663	15.8	5.0	16.6	58.1	5.0	16.6	58.1	16.2	4.2	17.3	14.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP09\_13 MP62115: Marble maze with intersections - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	19.9	13.9	26.1	13.5	14.5	14.2	17.8	21.4	18.5
Iran, Islamic Rep. of	1560	23.2	24.2	38.2	21.4	8.4	3.5	4.3	24.0	22.5
Kuwait	1088	25.4	24.7	38.1	24.0	7.6	2.8	2.8	21.5	29.4
South Africa (9)	2938	22.8	25.0	36.9	22.0	12.4	1.9	1.7	23.6	21.8
International Avg. (4)	7671	22.8	22.0	34.8	20.2	10.7	5.6	6.6	22.6	23.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Knowing  
MP10\_01 MP72187: Sum of two numbers with exponents - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	10.2	7.6	3.3	63.6	7.6	66.9	16.1	9.5	10.8	9.5
Iran, Islamic Rep. of	1554	38.3	33.6	2.8	51.2	33.6	54.0	12.2	0.2	39.0	37.7
Kuwait	1071	36.3	34.3	10.6	49.5	34.3	60.1	5.1	0.5	32.4	40.5
South Africa (9)	2936	58.2	56.8	2.3	38.4	56.8	40.7	2.4	0.1	62.6	54.0
International Avg. (4)	7649	35.8	33.0	4.8	50.7	33.0	55.4	8.9	2.6	36.2	35.4

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Reasoning  
MP10\_02 MP72022: Value of P x Q on number line - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	30.6	13.5	28.4	22.2	8.3	17.2	10.4	33.0	28.2
Iran, Islamic Rep. of	1554	33.7	16.5	28.3	31.2	16.7	7.1	0.3	35.5	32.0
Kuwait	1070	37.7	17.9	28.5	36.3	13.6	3.2	0.5	37.3	38.1
South Africa (9)	2936	27.9	17.5	38.9	27.4	14.3	1.9	0.1	27.7	27.7
International Avg. (4)	7645	32.5	16.3	31.0	29.3	13.2	7.3	2.8	33.4	31.5

Mathematics: Number / Applying

MP10\_04 MP72045: Ratio of blue and green paint for room - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	2.6	1.6	0.5	59.9	1.6	60.4	25.3	12.7	2.4	2.7
Iran, Islamic Rep. of	1554	30.0	24.4	2.7	54.3	24.4	57.0	18.2	0.4	30.4	29.6
Kuwait	1071	18.7	16.6	2.5	69.3	16.6	71.9	10.8	0.8	17.9	19.6
South Africa (9)	2939	15.7	15.1	1.4	79.6	15.1	81.1	3.6	0.2	16.7	15.2
International Avg. (4)	7652	16.7	14.4	1.8	65.8	14.4	67.6	14.5	3.5	16.8	16.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying  
MP10\_05 MP72049: Ratio of Y and B in row of quilt - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	23.9	12.6	39.9	12.6	39.9	31.8	15.8	25.8	22.1
Iran, Islamic Rep. of	1554	37.7	21.0	34.8	21.0	34.8	43.3	0.9	36.0	39.4
Kuwait	1071	39.0	30.0	46.9	30.0	46.9	22.1	1.0	36.1	42.0
South Africa (9)	2940	34.2	29.6	57.0	29.6	57.0	13.0	0.4	33.8	34.7
International Avg. (4)	7652	33.7	23.3	44.7	23.3	44.7	27.6	4.5	32.9	34.5

Mathematics: Algebra / Knowing

MP10\_06 MP72069: Value of  $3a + 5b$  given values for  $a$  and  $b$  - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	3.6	2.1	0.0	55.4	2.1	55.5	25.2	17.2	4.5	2.7
Iran, Islamic Rep. of	1554	36.2	26.9	1.4	45.9	26.9	47.3	24.8	1.1	36.3	36.2
Kuwait	1071	24.7	20.9	3.1	60.8	20.9	63.9	14.2	1.0	22.1	27.5
South Africa (9)	2939	32.2	30.9	0.8	64.4	30.9	65.2	3.3	0.6	38.4	26.0
International Avg. (4)	7651	24.2	20.2	1.3	56.6	20.2	58.0	16.9	5.0	25.3	23.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Knowing  
MP10\_07 MP72074: Write  $A + B$  in terms of  $x$  and  $y$  - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	1.3	0.7	49.7	0.7	49.7	31.3	18.4	2.4	0.3
Iran, Islamic Rep. of	1554	27.8	14.7	38.2	14.7	38.2	45.9	1.2	28.3	27.3
Kuwait	1071	12.8	9.5	64.8	9.5	64.8	24.7	1.0	12.4	13.2
South Africa (9)	2940	10.8	9.9	81.2	9.9	81.2	8.2	0.7	13.3	8.4
International Avg. (4)	7652	13.2	8.7	58.5	8.7	58.5	27.5	5.3	14.1	12.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Applying  
MP10\_08 MP72013: Formula for height of cliff - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2083	18.4	30.5	22.5	12.7	3.2	11.5	19.6	21.5	15.3
Iran, Islamic Rep. of	1554	22.5	31.7	27.5	21.1	13.3	4.7	1.6	23.1	22.0
Kuwait	1071	22.4	48.0	20.6	21.3	5.3	3.8	1.0	22.1	22.6
South Africa (9)	2942	27.8	44.3	20.9	27.1	5.2	1.6	0.8	31.4	24.1
International Avg. (4)	7650	22.8	38.6	22.9	20.5	6.7	5.4	5.8	24.5	21.0

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Algebra / Applying

MP10\_09 MP72095: Values of x and y for system of equations (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	71 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	1.5	0.7	1.8	0.2	47.4	0.7	49.4	29.1	20.7	1.9	1.0
Iran, Islamic Rep. of	1554	13.5	8.1	1.0	1.2	49.5	8.1	51.8	38.4	1.7	14.0	13.0
Kuwait	1070	14.1	10.9	5.5	2.8	58.1	10.9	66.5	21.5	1.1	11.4	17.1
South Africa (9)	2925	21.0	19.3	1.1	0.4	71.2	19.3	72.7	6.9	1.1	24.1	18.1
International Avg. (4)	7635	12.5	9.8	2.4	1.2	56.6	9.8	60.1	24.0	6.1	12.9	12.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Algebra / Applying  
MP10\_09A MP72095A: Values of x and y for system of equations - x value - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	5.2	2.6	46.8	2.6	46.8	29.9	20.7	5.7	4.6
Iran, Islamic Rep. of	1554	15.4	9.1	49.9	9.1	49.9	39.3	1.7	15.8	15.0
Kuwait	1070	21.3	16.4	60.7	16.4	60.7	21.8	1.1	17.5	25.4
South Africa (9)	2925	22.2	20.5	71.5	20.5	71.5	7.0	1.1	25.7	19.0
International Avg. (4)	7635	16.0	12.1	57.2	12.1	57.2	24.5	6.1	16.2	16.0

Mathematics: Algebra / Applying

MP10\_09B MP72095B: Values of x and y for system of equations - y value - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	2.0	1.0	47.4	1.0	47.4	31.0	20.7	2.5	1.5
Iran, Islamic Rep. of	1554	17.5	9.3	44.0	9.3	44.0	44.9	1.7	17.6	17.3
Kuwait	1070	18.0	13.8	62.5	13.8	62.5	22.7	1.1	16.0	20.2
South Africa (9)	2926	21.5	19.7	72.0	19.7	72.0	7.2	1.1	24.5	18.7
International Avg. (4)	7636	14.8	10.9	56.5	10.9	56.5	26.4	6.1	15.2	14.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Reasoning  
MP10\_10 MP72109: Rule to express y in terms of x - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	0.4	0.2	45.3	0.2	45.3	31.8	22.7	0.8	0.0
Iran, Islamic Rep. of	1554	15.6	7.1	38.5	7.1	38.5	52.1	2.2	17.7	13.5
Kuwait	1071	10.9	8.4	68.4	8.4	68.4	21.5	1.7	10.3	11.6
South Africa (9)	2940	2.8	2.5	87.6	2.5	87.6	8.3	1.5	2.6	2.9
International Avg. (4)	7654	7.4	4.5	60.0	4.5	60.0	28.4	7.0	7.9	7.0

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Geometry / Reasoning  
MP10\_11 MP72125: Area of square given side length of hexagon - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	6.0	4.1	18.4	21.9	23.2	9.2	23.3	6.0	6.1
Iran, Islamic Rep. of	1554	24.3	22.5	32.8	21.1	16.3	4.8	2.5	23.6	24.9
Kuwait	1071	18.9	18.3	36.1	23.1	19.3	1.6	1.7	19.2	18.6
South Africa (9)	2944	8.3	8.1	38.5	19.4	31.0	1.1	2.0	8.7	7.8
International Avg. (4)	7655	14.4	13.2	31.4	21.4	22.4	4.2	7.4	14.4	14.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Geometry / Applying  
MP10\_12 MP72196: Diameter of semicircle on ice cream logo - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2082	5.1	2.9	53.5	2.9	53.5	20.2	23.5	6.0	4.3
Iran, Islamic Rep. of	1554	20.4	14.1	54.8	14.1	54.8	28.6	2.5	20.9	20.0
Kuwait	1071	15.6	13.4	72.4	13.4	72.4	12.3	1.9	12.7	18.8
South Africa (9)	2940	11.1	10.3	82.4	10.3	82.4	5.1	2.2	10.6	11.7
International Avg. (4)	7647	13.1	10.2	65.8	10.2	65.8	16.5	7.5	12.5	13.7

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Geometry / Reasoning  
MP10\_13 MP72237: Net of a triangular prism - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2082	22.0	20.4	14.2	15.2	14.1	10.1	26.1	21.0	23.1
Iran, Islamic Rep. of	1554	46.9	19.9	13.5	15.0	42.7	5.4	3.6	48.5	45.3
Kuwait	1071	38.6	26.0	18.1	14.3	36.8	2.7	2.1	41.3	35.9
South Africa (9)	2938	45.8	22.2	13.7	16.1	44.0	1.1	2.9	42.8	49.1
International Avg. (4)	7645	38.3	22.1	14.9	15.2	34.4	4.8	8.7	38.4	38.4

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Applying

MP10\_14 MP72232: Important for fair basketball tryout (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	21.8	12.8	3.6	42.2	12.8	45.8	14.5	26.9	21.5	22.2
Iran, Islamic Rep. of	1554	51.9	48.5	1.8	43.1	48.5	45.0	2.8	3.8	55.0	49.0
Kuwait	1071	35.0	33.0	4.0	57.3	33.0	61.3	3.4	2.4	38.0	31.9
South Africa (9)	2945	20.4	19.2	4.8	70.2	19.2	75.1	2.4	3.4	23.2	17.4
International Avg. (4)	7659	32.3	28.4	3.6	53.2	28.4	56.8	5.7	9.1	34.4	30.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP10\_14A MP72232A: Important for fair basketball tryout - distance from hoop - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	83.4	46.0	9.2	17.8	26.9	85.1	81.6
Iran, Islamic Rep. of	1554	94.5	86.6	5.0	4.6	3.8	95.5	93.6
Kuwait	1071	90.7	83.9	8.6	5.1	2.4	91.6	89.8
South Africa (9)	2945	86.5	78.7	12.2	5.7	3.4	86.0	86.9
International Avg. (4)	7659	88.8	73.8	8.8	8.3	9.1	89.5	88.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying  
MP10\_14B MP72232B: Important for fair basketball tryout - number of players - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	52.0	25.5	27.6	20.0	26.9	53.0	51.1
Iran, Islamic Rep. of	1554	68.4	27.9	60.6	7.7	3.8	69.0	67.9
Kuwait	1071	56.1	39.7	50.7	7.2	2.4	54.0	58.3
South Africa (9)	2945	40.4	53.0	35.9	7.7	3.4	41.5	39.1
International Avg. (4)	7659	54.2	36.5	43.7	10.6	9.1	54.4	54.1

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Applying  
MP10\_14C MP72232C: Important for fair basketball tryout - color of ball - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	69.1	16.2	36.1	20.8	26.9	67.9	70.3
Iran, Islamic Rep. of	1554	83.3	14.9	74.0	7.4	3.8	86.4	80.4
Kuwait	1071	77.5	20.5	70.5	6.7	2.4	84.3	70.3
South Africa (9)	2945	72.8	23.9	63.8	9.0	3.4	74.1	71.6
International Avg. (4)	7659	75.7	18.8	61.1	11.0	9.1	78.2	73.1

Mathematics: Data and Probability / Applying

MP10\_14D MP72232D: Important for fair basketball tryout - weight of ball - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	60.4	31.6	20.7	20.8	26.9	59.7	61.2
Iran, Islamic Rep. of	1554	82.8	74.2	15.4	6.6	3.8	84.7	81.0
Kuwait	1071	74.1	67.3	23.5	6.9	2.4	74.6	73.6
South Africa (9)	2945	64.0	55.9	31.5	9.3	3.4	67.1	60.5
International Avg. (4)	7659	70.3	57.2	22.8	10.9	9.1	71.5	69.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Reasoning

MP10\_15 MP72206: Pie charts for proportions of people by age - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	0.2	0.0	0.0	0.2	33.8	0.1	33.9	32.3	33.7	0.2	0.2
Iran, Islamic Rep. of	1554	7.7	2.0	1.9	0.5	46.9	4.0	47.4	42.7	5.9	7.9	7.6
Kuwait	1071	4.7	2.0	0.9	6.1	53.5	2.9	59.6	32.7	4.8	3.1	6.6
South Africa (9)	2936	3.3	1.9	1.0	1.1	84.5	2.9	85.6	6.8	4.7	3.8	2.7
International Avg. (4)	7650	4.0	1.5	1.0	2.0	54.7	2.5	56.6	28.6	12.3	3.8	4.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Knowing  
MP11\_01 MP62271: Randy's blue balloons - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	40.9	7.4	18.4	25.4	35.4	12.2	1.3	41.9	39.8
Iran, Islamic Rep. of	1534	35.3	12.0	24.2	25.4	33.6	4.6	0.2	34.0	36.5
Kuwait	1067	66.2	8.6	10.1	12.3	60.8	7.8	0.4	69.5	62.6
South Africa (9)	2983	29.0	15.6	22.6	30.3	27.9	3.4	0.1	28.4	29.1
International Avg. (4)	7672	42.8	10.9	18.8	23.4	39.4	7.0	0.5	43.5	42.0

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Applying

MP11\_02 MP62152: Least number of crates for Harry's apples - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	4.4	3.5	10.3	65.8	3.5	76.1	18.6	1.8	3.0	5.8
Iran, Islamic Rep. of	1534	12.6	10.1	21.3	48.6	10.1	69.9	19.6	0.4	9.0	16.0
Kuwait	1068	13.2	11.7	10.4	66.3	11.7	76.6	11.3	0.4	8.6	18.1
South Africa (9)	2983	12.4	11.9	17.9	65.9	11.9	83.8	4.2	0.1	11.9	13.0
International Avg. (4)	7676	10.7	9.3	15.0	61.6	9.3	76.6	13.4	0.7	8.1	13.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying

MP11\_03 MP62215: Fill in bicycle sale table - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	11 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	2.9	0.1	0.9	2.5	57.9	0.1	3.4	57.9	36.1	2.6	3.3	2.5
Iran, Islamic Rep. of	1534	16.5	5.5	9.1	3.3	53.3	5.5	12.4	53.3	28.4	0.4	11.4	20.8
Kuwait	1067	10.4	4.1	6.6	2.6	71.1	4.1	9.3	71.1	14.8	0.7	7.0	13.8
South Africa (9)	2980	8.6	2.6	5.2	5.4	79.1	2.6	10.6	79.1	7.5	0.1	7.3	10.0
International Avg. (4)	7672	9.6	3.1	5.5	3.5	65.3	3.1	8.9	65.3	21.7	0.9	7.2	11.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Reasoning

MP11\_04 MP62143: Number of girls in a class given boys:girls - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	1.1	0.8	66.8	0.8	66.8	29.1	3.3	1.0	1.3
Iran, Islamic Rep. of	1534	13.5	9.2	58.8	9.2	58.8	31.4	0.6	9.7	17.2
Kuwait	1067	6.7	5.5	76.9	5.5	76.9	16.6	1.0	5.3	8.2
South Africa (9)	2981	5.1	4.7	88.4	4.7	88.4	6.7	0.2	5.0	5.3
International Avg. (4)	7673	6.6	5.0	72.7	5.0	72.7	20.9	1.3	5.2	8.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Knowing

MP11\_05 MP62230: Identify expression equivalent to  $(3x + 6) / 9x$  - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2089	18.1	4.8	15.1	14.6	49.1	12.3	4.0	17.1	19.1
Iran, Islamic Rep. of	1534	25.4	12.2	24.0	16.7	41.8	4.8	0.6	24.8	25.9
Kuwait	1068	28.2	11.6	26.9	19.6	37.3	3.5	1.2	26.7	29.8
South Africa (9)	2988	14.3	11.0	14.1	45.5	28.1	1.0	0.2	12.4	15.9
International Avg. (4)	7679	21.5	9.9	20.0	24.1	39.1	5.4	1.5	20.2	22.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Applying

MP11\_06 MP62095: Equation for Bruno's monthly cell phone cost - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	24.6	20.5	29.9	23.8	9.1	11.4	5.3	26.4	22.8
Iran, Islamic Rep. of	1534	33.1	30.5	32.3	21.1	8.3	7.0	0.7	34.6	31.6
Kuwait	1068	30.2	28.4	33.5	22.1	10.2	4.5	1.3	30.0	30.3
South Africa (9)	2986	23.0	22.5	31.9	34.6	8.7	2.0	0.3	23.2	22.1
International Avg. (4)	7675	27.7	25.5	31.9	25.4	9.1	6.2	1.9	28.5	26.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Applying  
MP11\_07 MP62076: Room divided into classroom M and laboratory L - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	29.3	24.3	30.3	17.7	10.8	11.0	6.0	29.6	28.9
Iran, Islamic Rep. of	1534	46.5	44.5	30.9	12.3	8.0	3.5	0.8	48.2	44.8
Kuwait	1068	41.4	39.6	29.1	18.5	8.3	3.2	1.4	40.4	42.5
South Africa (9)	2987	30.8	30.2	37.3	17.9	12.8	1.4	0.4	33.1	28.5
International Avg. (4)	7677	37.0	34.7	31.9	16.6	10.0	4.8	2.1	37.8	36.2

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Applying

MP11\_08 MP62030: Find cost of taxi ride with table - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	13.5	10.5	12.9	54.3	10.5	67.2	15.0	7.3	14.7	12.4
Iran, Islamic Rep. of	1534	43.6	37.8	16.3	32.6	37.8	48.9	12.4	1.0	47.0	40.4
Kuwait	1067	28.0	25.7	22.4	43.6	25.7	65.9	7.0	1.4	28.6	27.4
South Africa (9)	2982	47.4	46.2	9.2	42.0	46.2	51.2	2.1	0.5	50.8	44.5
International Avg. (4)	7674	33.2	30.1	15.2	43.1	30.1	58.3	9.1	2.5	35.3	31.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Knowing  
MP11\_09 MP62171: Shaded square reflected over the line XY - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	20.4	29.9	15.5	15.4	15.6	14.1	9.5	20.1	20.7
Iran, Islamic Rep. of	1534	48.2	13.4	20.6	15.9	46.4	2.7	1.1	52.3	44.2
Kuwait	1068	37.2	8.3	32.6	19.9	36.0	1.8	1.5	36.4	38.0
South Africa (9)	2986	34.3	27.3	20.4	16.6	33.6	1.4	0.7	34.5	34.0
International Avg. (4)	7674	35.0	19.7	22.2	16.9	32.9	5.0	3.2	35.8	34.2



Mathematics: Geometry / Reasoning

MP11\_10 MP62301: Sculpture from solid cube - number of faces - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	0.4	0.2	67.1	0.2	67.1	22.1	10.6	0.0	0.7
Iran, Islamic Rep. of	1534	5.7	3.6	60.6	3.6	60.6	34.5	1.3	5.8	5.6
Kuwait	1068	5.7	4.9	81.7	4.9	81.7	12.0	1.5	3.8	7.6
South Africa (9)	2983	4.6	4.5	91.4	4.5	91.4	3.3	0.9	4.0	5.2
International Avg. (4)	7676	4.1	3.3	75.2	3.3	75.2	18.0	3.5	3.4	4.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Reasoning

MP11\_11 MP62194: Number of cubes in solid figure - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	33.8	15.2	21.6	26.2	14.7	9.4	12.9	29.8	37.8
Iran, Islamic Rep. of	1534	66.2	5.5	15.5	63.1	11.4	2.9	1.7	64.8	67.5
Kuwait	1068	52.6	7.8	26.3	50.4	11.2	2.5	1.7	47.7	57.7
South Africa (9)	2987	52.3	9.2	24.0	50.9	13.3	1.6	1.1	50.6	54.0
International Avg. (4)	7677	51.2	9.4	21.8	47.7	12.6	4.1	4.3	48.2	54.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying

MP11\_12 MP62344: Total bowls to raise average to 15 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	12 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2090	4.5	1.5	1.3	0.0	58.4	2.8	58.4	24.9	13.9	4.5	4.5
Iran, Islamic Rep. of	1534	17.6	7.0	5.0	0.2	57.2	12.2	57.2	28.7	1.9	18.3	16.9
Kuwait	1068	7.8	2.1	4.3	0.0	76.2	6.5	76.2	15.5	1.8	7.0	8.6
South Africa (9)	2983	13.5	9.7	2.9	0.0	80.8	12.6	80.8	5.3	1.3	15.0	12.2
International Avg. (4)	7675	10.8	5.1	3.4	0.0	68.2	8.5	68.2	18.6	4.7	11.2	10.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Applying  
MP11\_13 MP62320: Fishing histogram - proportion of fish released - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	9.6	7.5	46.9	10.7	7.0	11.1	16.8	11.0	8.2
Iran, Islamic Rep. of	1534	22.2	11.0	40.3	20.8	20.5	4.6	2.9	18.8	25.4
Kuwait	1068	18.9	9.6	46.2	20.5	17.8	3.2	2.6	15.8	22.1
South Africa (9)	2989	15.7	10.9	52.5	18.0	15.1	1.7	1.8	17.1	14.7
International Avg. (4)	7678	16.6	9.7	46.5	17.5	15.1	5.2	6.0	15.7	17.6

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data and Probability / Reasoning  
MP11\_14 MP62296: Draw a spinner given chance of outcomes - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2091	4.1	1.8	41.5	1.8	41.5	37.2	19.5	3.7	4.4
Iran, Islamic Rep. of	1534	51.4	44.0	41.5	44.0	41.5	11.2	3.4	51.2	51.6
Kuwait	1068	22.1	18.6	65.6	18.6	65.6	12.9	2.9	18.4	26.2
South Africa (9)	2982	14.2	13.1	79.2	13.1	79.2	5.3	2.4	13.2	15.1
International Avg. (4)	7675	23.0	19.4	57.0	19.4	57.0	16.6	7.0	21.6	24.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Reasoning

MP12\_01 MP72001: Two integers with product of -24 and sum of 5 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	0.5	0.3	0.0	56.3	0.3	56.3	33.9	9.5	1.0	0.0
Iran, Islamic Rep. of	1533	24.3	16.1	3.2	46.8	16.1	50.0	33.8	0.1	25.0	23.6
Kuwait	1080	14.6	11.5	2.2	65.2	11.5	67.3	20.9	0.3	12.0	17.4
South Africa (9)	2976	6.2	5.5	0.3	83.1	5.5	83.4	11.1	0.0	6.1	6.2
International Avg. (4)	7677	11.4	8.3	1.4	62.9	8.3	64.3	24.9	2.5	11.1	11.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Knowing  
MP12\_02 MP72019: Order fractions and decimals from smallest to largest - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	2.0	1.6	77.3	1.6	77.3	10.7	10.4	2.9	1.0
Iran, Islamic Rep. of	1533	12.9	11.8	79.5	11.8	79.5	8.4	0.3	9.8	16.1
Kuwait	1080	15.8	14.9	79.4	14.9	79.4	5.1	0.6	9.6	22.6
South Africa (9)	2977	5.8	5.7	92.6	5.7	92.6	1.6	0.2	4.8	6.9
International Avg. (4)	7678	9.1	8.5	82.2	8.5	82.2	6.4	2.9	6.8	11.6

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing  
MP12\_03 MP72189:  $7/100 + 6/1000 =$  - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	15.7	7.8	11.7	32.0	22.9	14.6	11.0	17.7	13.5
Iran, Islamic Rep. of	1533	37.2	7.3	35.6	29.0	23.8	3.9	0.4	37.7	36.7
Kuwait	1080	32.2	9.9	31.0	35.0	20.5	2.8	0.7	30.6	33.8
South Africa (9)	2981	62.7	7.8	61.8	14.9	14.0	1.3	0.1	69.0	56.7
International Avg. (4)	7680	36.9	8.2	35.0	27.7	20.3	5.6	3.1	38.8	35.2

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Number / Knowing  
MP12\_04 MP72024: Value of P for expression with fraction and decimal - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	3.0	1.7	0.3	54.7	1.7	55.0	29.9	13.4	4.2	1.8
Iran, Islamic Rep. of	1533	39.5	27.4	9.5	32.4	27.4	41.9	30.2	0.5	41.0	38.1
Kuwait	1080	23.4	19.2	6.4	56.6	19.2	62.9	17.1	0.8	21.8	25.1
South Africa (9)	2978	19.9	18.6	5.8	68.8	18.6	74.5	6.7	0.2	21.5	18.1
International Avg. (4)	7678	21.5	16.7	5.5	53.1	16.7	58.6	21.0	3.7	22.1	20.8

Mathematics: Number / Applying  
MP12\_05 MP72043: Ratio of tablet screen side lengths - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	14.8	15.2	25.8	10.7	20.5	12.9	14.8	16.5	13.0
Iran, Islamic Rep. of	1533	25.3	24.6	29.7	23.0	13.9	8.2	0.7	27.4	23.3
Kuwait	1079	23.4	26.7	33.4	22.0	12.0	5.0	0.9	21.1	25.7
South Africa (9)	2979	20.3	22.6	36.6	19.7	18.1	2.5	0.5	17.7	23.3
International Avg. (4)	7677	20.9	22.3	31.4	18.9	16.1	7.2	4.2	20.7	21.3

Mathematics: Algebra / Knowing  
MP12\_06 MP72221: Value of  $y = 2x^2 - 2x + 5$  given  $x = MC$  - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	14.6	7.4	10.3	18.1	35.1	13.4	15.7	14.4	14.9
Iran, Islamic Rep. of	1533	45.2	11.9	42.2	22.0	17.3	5.7	0.9	47.9	42.5
Kuwait	1080	31.7	14.3	30.2	21.8	29.1	3.5	1.2	29.0	34.5
South Africa (9)	2980	37.8	6.6	36.6	15.6	38.2	2.4	0.6	44.2	31.6
International Avg. (4)	7679	32.3	10.0	29.8	19.4	29.9	6.3	4.6	33.9	30.9

Mathematics: Algebra / Knowing  
MP12\_07 MP72220: Simplify  $4(3a + 4) - 3(4a - 6)$  - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	14.4	17.3	25.2	16.1	9.8	13.5	18.0	14.7	14.0
Iran, Islamic Rep. of	1533	28.4	20.7	26.3	17.9	25.8	8.2	1.0	31.2	25.8
Kuwait	1080	20.6	25.7	30.1	17.7	19.0	5.7	1.7	20.1	21.1
South Africa (9)	2979	50.8	14.4	19.5	14.0	49.5	1.5	1.0	52.8	48.4
International Avg. (4)	7678	28.5	19.5	25.3	16.4	26.0	7.2	5.4	29.7	27.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Applying  
MP12\_08 MP72225: Number of pizzas (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	4.1	2.4	57.2	2.4	57.2	21.6	18.8	3.8	4.5
Iran, Islamic Rep. of	1533	24.2	18.9	59.5	18.9	59.5	20.3	1.3	20.3	27.7
Kuwait	1080	18.4	15.7	69.4	15.7	69.4	12.9	1.9	16.2	21.0
South Africa (9)	2977	10.4	9.7	83.7	9.7	83.7	5.5	1.2	9.6	11.2
International Avg. (4)	7676	14.3	11.7	67.5	11.7	67.5	15.1	5.8	12.5	16.1

Mathematics: Algebra / Applying  
MP12\_08A MP72225A: Number of pizzas - small - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	4.8	2.8	54.8	2.8	54.8	23.7	18.8	4.8	4.9
Iran, Islamic Rep. of	1533	25.2	19.6	58.0	19.6	58.0	21.1	1.3	21.3	28.8
Kuwait	1080	19.6	16.6	68.3	16.6	68.3	13.1	1.9	17.3	22.2
South Africa (9)	2979	10.7	9.9	82.5	9.9	82.5	6.4	1.2	9.9	11.6
International Avg. (4)	7678	15.1	12.2	65.9	12.2	65.9	16.1	5.8	13.3	16.9

Mathematics: Algebra / Applying  
MP12\_08B MP72225B: Number of pizzas - large - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	5.0	2.9	54.8	2.9	54.8	23.5	18.8	4.9	5.1
Iran, Islamic Rep. of	1533	25.5	19.6	57.2	19.6	57.2	21.8	1.3	21.6	29.1
Kuwait	1080	19.6	16.4	67.3	16.4	67.3	14.3	1.9	17.2	22.5
South Africa (9)	2977	10.7	9.9	82.0	9.9	82.0	7.0	1.2	9.8	11.8
International Avg. (4)	7676	15.2	12.2	65.3	12.2	65.3	16.7	5.8	13.4	17.1

Mathematics: Algebra / Applying

MP12\_09A MP72110A: Triangle tiles for square shape - 5 by 5 square - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	1.2	0.7	54.9	0.7	54.9	23.0	21.4	1.0	1.3
Iran, Islamic Rep. of	1533	25.5	18.6	54.4	18.6	54.4	25.1	1.9	28.1	23.0
Kuwait	1080	12.9	10.6	71.6	10.6	71.6	15.4	2.3	9.7	16.7
South Africa (9)	2978	6.8	6.3	87.5	6.3	87.5	4.4	1.8	6.5	7.1
International Avg. (4)	7678	11.6	9.1	67.1	9.1	67.1	17.0	6.8	11.3	12.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Algebra / Reasoning

MP12\_09B MP72110B: Triangle tiles for square shape - rule - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	0.4	0.1	0.0	39.7	0.2	39.7	37.1	23.0	0.3	0.6
Iran, Islamic Rep. of	1533	19.2	7.9	0.3	34.4	8.2	34.4	55.1	2.3	19.9	18.4
Kuwait	1080	9.8	6.4	0.1	59.5	6.5	59.5	31.1	2.9	7.8	12.2
South Africa (9)	2977	2.7	2.3	0.1	85.6	2.4	85.6	9.9	2.2	2.9	2.6
International Avg. (4)	7676	8.0	4.2	0.1	54.8	4.3	54.8	33.3	7.6	7.7	8.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Applying  
MP12\_10 MP72150: Cost of shipping box by volume - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	51.8	11.3	9.0	34.3	11.5	10.0	23.9	50.9	52.8
Iran, Islamic Rep. of	1533	58.3	13.2	15.2	54.1	10.3	4.5	2.7	58.2	58.4
Kuwait	1079	50.4	16.4	14.1	46.4	15.2	4.8	3.2	49.6	51.2
South Africa (9)	2976	57.9	17.0	8.6	55.6	14.9	1.5	2.4	58.9	56.7
International Avg. (4)	7675	54.6	14.4	11.7	47.6	13.0	5.2	8.0	54.4	54.8

Mathematics: Geometry / Applying  
MP12\_11 MP72139: Length of surfboard shadow - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	1.5	0.9	6.0	52.3	0.9	58.3	16.3	24.5	0.8	2.3
Iran, Islamic Rep. of	1533	10.7	7.5	22.9	39.4	7.5	62.3	27.3	2.9	7.5	13.6
Kuwait	1079	8.6	7.3	27.9	50.0	7.3	77.9	11.5	3.3	6.1	11.4
South Africa (9)	2982	6.4	6.0	24.4	63.1	6.0	87.6	3.3	3.1	4.8	8.3
International Avg. (4)	7682	6.8	5.4	20.3	51.2	5.4	71.5	14.6	8.4	4.8	8.9

Mathematics: Geometry / Reasoning  
MP12\_12 MP72229: Distance on circular road around city center - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	70 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	0.1	0.0	0.1	0.7	53.8	0.0	0.1	54.5	18.7	26.7	0.0	0.1
Iran, Islamic Rep. of	1533	3.0	1.2	0.9	1.8	52.8	1.2	0.9	54.6	39.5	3.8	3.8	2.3
Kuwait	1079	2.7	1.1	2.0	5.8	69.1	1.1	2.0	74.9	18.0	3.9	1.2	4.5
South Africa (9)	2982	1.4	0.6	1.3	1.8	87.1	0.6	1.3	89.0	5.0	4.1	1.0	1.9
International Avg. (4)	7682	1.8	0.7	1.1	2.5	65.7	0.7	1.1	68.2	20.3	9.6	1.5	2.2

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Applying  
MP12\_13 MP72171: Probability of spinner landing on W - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	2.2	0.4	0.6	45.1	1.0	45.1	25.0	28.8	2.0	2.4
Iran, Islamic Rep. of	1533	21.8	14.1	1.0	53.7	15.0	53.7	26.8	4.5	21.6	22.0
Kuwait	1079	17.6	10.4	3.7	66.1	14.1	66.1	15.1	4.7	12.3	23.6
South Africa (9)	2982	7.1	3.4	2.9	81.8	6.3	81.8	6.8	5.1	6.1	8.5
International Avg. (4)	7682	12.2	7.1	2.0	61.7	9.1	61.7	18.5	10.8	10.5	14.1

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Knowing  
MP12\_14A MP72211A: Selling prices of houses - mean - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	14.3	22.8	8.8	12.8	17.4	8.3	29.9	17.0	11.5
Iran, Islamic Rep. of	1533	45.8	12.5	41.0	20.8	15.3	5.5	4.9	46.0	45.5
Kuwait	1077	33.4	21.6	30.9	22.1	17.9	2.7	4.8	34.8	32.0
South Africa (9)	2973	17.6	44.2	16.2	17.4	14.0	3.1	5.2	16.2	19.3
International Avg. (4)	7669	27.8	25.3	24.2	18.3	16.1	4.9	11.2	28.5	27.1

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Number / Knowing  
MP13\_01 MP62001: 276 x 85 is equal to - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2083	41.1	5.8	32.4	26.4	14.1	20.1	1.2	43.8	38.6
Iran, Islamic Rep. of	1552	40.5	12.6	36.0	27.9	12.3	10.7	0.5	40.3	40.7
Kuwait	1080	43.6	15.2	41.4	22.8	15.5	4.8	0.3	45.2	42.1
South Africa (9)	3001	55.8	12.2	54.5	20.3	10.5	2.2	0.2	58.3	53.4
International Avg. (4)	7716	45.3	11.5	41.1	24.4	13.1	9.4	0.5	46.9	43.7

Mathematics: Number / Applying  
MP13\_02 MP62214: Ahmed buys ice cream and a book - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	4.9	4.0	76.3	4.0	76.3	17.7	2.0	5.3	4.6
Iran, Islamic Rep. of	1552	34.6	29.5	55.8	29.5	55.8	13.9	0.8	27.8	40.8
Kuwait	1081	17.6	16.3	76.4	16.3	76.4	6.8	0.5	12.5	22.9
South Africa (9)	2994	8.4	8.1	88.7	8.1	88.7	2.9	0.2	7.3	9.8
International Avg. (4)	7713	16.4	14.5	74.3	14.5	74.3	10.3	0.9	13.2	19.6



Mathematics: Number / Applying  
MP13\_03 MP62146: Find percent of fir trees in a park given a ratio - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2085	20.7	16.9	25.9	26.1	12.8	15.7	2.6	22.0	19.5
Iran, Islamic Rep. of	1552	28.9	27.1	22.1	31.7	12.9	5.4	0.9	25.8	31.8
Kuwait	1079	21.0	20.4	34.3	31.4	11.0	2.4	0.5	17.0	25.0
South Africa (9)	2996	17.4	17.0	31.0	34.6	15.0	2.2	0.3	16.2	18.7
International Avg. (4)	7712	22.0	20.4	28.3	31.0	12.9	6.4	1.1	20.2	23.7

Mathematics: Number / Applying  
MP13\_04 MP62154: Number of eggs Minji needs to bake cookies - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	8.4	6.7	73.2	6.7	73.2	17.1	2.9	7.1	9.7
Iran, Islamic Rep. of	1552	43.8	37.7	48.4	37.7	48.4	12.9	1.0	37.1	50.0
Kuwait	1081	25.1	23.1	69.0	23.1	69.0	7.2	0.6	16.4	34.0
South Africa (9)	2996	24.4	23.6	73.2	23.6	73.2	2.8	0.4	22.8	26.3
International Avg. (4)	7715	25.4	22.8	66.0	22.8	66.0	10.0	1.2	20.9	30.0

DIFF = Percent correct  
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Mathematics: Algebra / Knowing  
MP13\_05 MP62067: Find value of x when y = 5 - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2084	31.8	32.5	15.3	26.4	8.8	13.0	4.1	32.0	31.6
Iran, Islamic Rep. of	1552	56.1	21.9	9.0	53.0	10.6	4.4	1.1	59.9	52.4
Kuwait	1079	47.4	26.5	12.2	45.8	12.2	2.7	0.7	44.8	49.9
South Africa (9)	3000	48.2	17.9	17.1	47.4	15.9	1.2	0.5	50.6	45.9
International Avg. (4)	7715	45.9	24.7	13.4	43.1	11.9	5.3	1.6	46.8	45.0

Mathematics: Algebra / Knowing  
MP13\_06 MP62341: Slope of line  $y = 3x - 1$  - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2084	26.9	23.4	21.0	14.6	21.7	14.0	5.4	27.6	26.2
Iran, Islamic Rep. of	1552	27.6	26.2	22.9	15.2	24.5	10.1	1.2	26.7	28.5
Kuwait	1078	27.8	30.0	20.2	17.8	26.2	5.1	0.7	26.4	29.2
South Africa (9)	2997	24.9	25.7	31.8	15.2	24.2	2.4	0.7	24.7	24.7
International Avg. (4)	7711	26.8	26.3	24.0	15.7	24.1	7.9	2.0	26.4	27.1

Mathematics: Algebra / Reasoning  
MP13\_07 MP62242: Relationship for a linear graph in words - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	18.3	14.0	26.8	17.2	18.5	17.8	5.9	17.0	19.5
Iran, Islamic Rep. of	1552	35.4	32.5	25.2	19.3	14.9	6.7	1.3	34.5	36.1
Kuwait	1080	30.2	29.0	34.3	19.5	13.1	3.5	0.7	28.9	31.6
South Africa (9)	2998	33.1	32.4	36.2	14.8	14.4	1.4	0.8	31.4	35.5
International Avg. (4)	7716	29.3	27.0	30.6	17.7	15.2	7.4	2.2	28.0	30.7

Mathematics: Geometry / Applying  
MP13\_08A MP62250A: Julia's hexagon box - decorated strip - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	5.0	3.8	71.6	3.8	71.6	17.8	6.9	5.0	5.1
Iran, Islamic Rep. of	1552	20.8	16.0	61.2	16.0	61.2	21.2	1.6	20.4	21.1
Kuwait	1081	16.0	14.3	74.8	14.3	74.8	10.2	0.8	14.6	17.5
South Africa (9)	2998	12.6	12.1	83.9	12.1	83.9	3.1	0.9	11.5	14.1
International Avg. (4)	7717	13.6	11.5	72.9	11.5	72.9	13.1	2.5	12.9	14.4

Mathematics: Geometry / Applying  
MP13\_08B MP62250B: Julia's hexagon box - blue paper for sides - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	0.5	0.3	72.5	0.3	72.5	18.2	9.0	0.5	0.4
Iran, Islamic Rep. of	1552	12.0	8.3	61.2	8.3	61.2	28.1	2.3	10.3	13.6
Kuwait	1081	5.0	4.3	82.3	4.3	82.3	12.2	1.1	2.9	7.3
South Africa (9)	2997	3.1	2.9	91.9	2.9	91.9	4.1	1.1	2.4	3.9
International Avg. (4)	7716	5.1	4.0	77.0	4.0	77.0	15.7	3.4	4.0	6.3

DIFF = Percent correct  
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Mathematics: Geometry / Reasoning

MP13\_09 MP62170: Fill in table for number of faces coated with paint - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	1.6	0.2	1.8	65.8	0.2	1.8	65.8	22.7	9.5	1.4	1.8
Iran, Islamic Rep. of	1552	26.5	6.2	28.7	42.5	6.2	28.7	42.5	20.1	2.5	25.3	27.6
Kuwait	1082	21.0	2.6	31.4	53.1	2.6	31.4	53.1	11.6	1.3	19.2	22.9
South Africa (9)	2995	19.0	2.3	30.8	60.0	2.3	30.8	60.0	5.7	1.2	18.6	19.3
International Avg. (4)	7716	17.0	2.8	23.2	55.4	2.8	23.2	55.4	15.0	3.6	16.1	17.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Geometry / Applying

MP13\_10 MP62192: Distance from base of ladder to base of building - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2087	0.3	0.3	74.6	0.3	74.6	14.0	11.2	0.2	0.5
Iran, Islamic Rep. of	1552	17.7	15.6	72.6	15.6	72.6	9.2	2.6	19.2	16.3
Kuwait	1081	9.2	8.4	83.0	8.4	83.0	7.2	1.4	5.9	12.6
South Africa (9)	2995	5.3	5.1	90.9	5.1	90.9	2.6	1.4	5.0	5.8
International Avg. (4)	7715	8.1	7.3	80.3	7.3	80.3	8.3	4.1	7.6	8.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data and Probability / Applying  
MP13\_11 MP62072: Graph for Charles' walk or bike to Olympic park - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2088	5.8	4.6	74.4	4.6	74.4	8.9	12.1	5.8	5.8
Iran, Islamic Rep. of	1552	29.1	27.3	66.6	27.3	66.6	3.3	2.7	28.7	29.4
Kuwait	1082	28.0	26.7	68.7	26.7	68.7	3.2	1.4	29.7	26.3
South Africa (9)	2998	17.5	17.0	79.7	17.0	79.7	2.0	1.4	15.8	19.7
International Avg. (4)	7720	20.1	18.9	72.4	18.9	72.4	4.3	4.4	20.0	20.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Knowing  
MP13\_13 MP62120: Umut picks marbles without replacement - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	2086	22.0	16.1	19.3	15.0	17.6	11.8	20.1	21.2	22.9
Iran, Islamic Rep. of	1552	40.8	11.7	15.6	38.4	28.5	1.5	4.3	39.6	41.9
Kuwait	1081	26.7	18.0	27.4	25.7	24.8	2.0	2.0	26.0	27.5
South Africa (9)	2996	16.7	23.4	23.6	16.1	32.9	1.5	2.5	14.5	19.4
International Avg. (4)	7715	26.6	17.3	21.5	23.8	26.0	4.2	7.2	25.3	27.9

Mathematics: Number / Knowing

MP14\_01 MP72005: Number with most factors - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1977	23.5	41.4	6.4	18.3	11.6	13.3	9.0	24.0	23.0
Iran, Islamic Rep. of	1566	43.3	39.6	7.2	41.9	8.0	2.8	0.4	44.4	42.2
Kuwait	1081	41.8	40.0	6.7	40.5	9.7	2.7	0.4	39.2	44.4
South Africa (9)	3012	40.1	37.3	7.8	39.5	13.9	1.4	0.0	41.9	38.5
International Avg. (4)	7636	37.2	39.6	7.0	35.0	10.8	5.0	2.5	37.4	37.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Knowing  
MP14\_02 MP72021: Value of X in 10/15 = X/18 - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1978	3.3	2.1	0.7	62.1	2.1	62.9	24.2	10.8	3.5	3.1
Iran, Islamic Rep. of	1566	29.0	20.0	7.3	41.7	20.0	49.0	30.5	0.4	29.8	28.3
Kuwait	1079	29.7	26.7	3.7	59.5	26.7	63.2	9.8	0.4	31.7	27.5
South Africa (9)	2999	22.5	21.3	6.3	67.1	21.3	73.4	5.2	0.1	23.4	22.0
International Avg. (4)	7622	21.1	17.5	4.5	57.6	17.5	62.1	17.4	2.9	22.1	20.2

Mathematics: Number / Reasoning  
MP14\_03 MP72026: Make two fractions with largest product - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	23.1	16.7	16.7	39.1	16.7	55.8	15.6	11.9	24.7	21.5
Iran, Islamic Rep. of	1566	33.1	31.1	28.0	34.8	31.1	62.8	5.4	0.7	31.2	34.9
Kuwait	1079	27.5	26.3	38.0	31.4	26.3	69.3	4.0	0.4	26.0	29.0
South Africa (9)	3004	13.4	13.0	27.4	56.8	13.0	84.2	2.6	0.2	13.8	12.8
International Avg. (4)	7630	24.3	21.8	27.5	40.5	21.8	68.0	6.9	3.3	23.9	24.5

Mathematics: Number / Applying

MP14\_04A MP72041A: Ratio of boys to girls - Class I - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	4.0	2.8	0.0	67.0	2.8	67.0	16.6	13.7	3.6	4.3
Iran, Islamic Rep. of	1566	30.9	26.2	0.0	58.5	26.2	58.5	14.5	0.9	35.5	26.5
Kuwait	1080	30.8	27.2	1.1	63.5	28.3	63.5	7.8	0.4	32.7	28.8
South Africa (9)	3005	43.5	40.1	1.7	54.5	41.9	54.5	3.5	0.2	50.4	36.4
International Avg. (4)	7632	27.3	24.1	0.7	60.9	24.8	60.9	10.6	3.8	30.6	24.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying  
MP14\_04B MP72041B: Ratio of boys to girls - eighth grade - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	1.1	0.8	0.0	67.7	0.8	67.7	16.9	14.7	0.9	1.3
Iran, Islamic Rep. of	1566	23.7	19.4	0.0	62.4	19.4	62.4	17.2	1.1	26.2	21.3
Kuwait	1080	25.8	23.1	0.3	67.0	23.3	67.0	8.9	0.7	24.3	27.4
South Africa (9)	3005	23.3	21.9	0.3	73.2	22.3	73.2	4.2	0.4	27.3	19.4
International Avg. (4)	7632	18.5	16.3	0.2	67.6	16.4	67.6	11.8	4.2	19.7	17.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Knowing  
MP14\_05 MP72223: Expression for money in savings account - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1979	27.1	26.4	19.2	16.3	8.9	14.2	15.0	27.3	26.8
Iran, Islamic Rep. of	1566	35.0	35.5	32.7	17.7	7.5	5.4	1.2	31.0	39.0
Kuwait	1081	29.1	44.4	28.0	14.8	8.9	3.2	0.8	25.6	32.6
South Africa (9)	3012	30.2	34.8	29.4	20.1	13.2	2.1	0.4	29.9	30.7
International Avg. (4)	7638	30.4	35.2	27.3	17.2	9.6	6.2	4.3	28.5	32.3

Mathematics: Algebra / Knowing  
MP14\_06 MP72094: Value of k when  $(k + 7) / 3 = 6$  - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	9.0	5.5	55.7	5.5	55.7	21.6	17.1	9.6	8.4
Iran, Islamic Rep. of	1566	38.3	28.4	45.9	28.4	45.9	24.3	1.4	37.2	39.2
Kuwait	1080	30.8	26.9	60.4	26.9	60.4	11.9	0.8	27.1	34.7
South Africa (9)	3004	33.6	31.8	62.7	31.8	62.7	5.0	0.6	35.5	31.8
International Avg. (4)	7631	27.9	23.1	56.2	23.1	56.2	15.7	5.0	27.4	28.5

Mathematics: Algebra / Applying  
MP14\_07 MP72059: Formula for students' overall scores in course - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	1.2	0.6	0.1	53.6	0.7	53.6	26.7	19.1	1.6	0.8
Iran, Islamic Rep. of	1566	12.7	7.6	0.0	52.3	7.6	52.3	38.5	1.6	13.2	12.1
Kuwait	1080	12.6	9.1	0.6	67.3	9.7	67.3	22.2	0.8	10.8	14.6
South Africa (9)	3002	17.0	14.8	0.7	75.8	15.6	75.8	7.7	0.9	20.1	14.1
International Avg. (4)	7629	10.9	8.0	0.3	62.3	8.4	62.3	23.8	5.6	11.4	10.4

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Knowing  
MP14\_08 MP72080: Expression equivalent to  $x + 2y + 6$  - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	11.9	7.9	9.7	42.7	6.0	13.7	20.0	11.5	12.3
Iran, Islamic Rep. of	1566	26.2	24.0	20.7	40.6	6.4	6.4	1.8	25.7	26.6
Kuwait	1078	19.5	18.6	21.6	46.6	8.5	3.8	0.9	18.9	20.1
South Africa (9)	3011	14.8	14.3	15.2	52.8	14.3	2.1	1.4	15.8	14.0
International Avg. (4)	7636	18.1	16.2	16.8	45.7	8.8	6.5	6.0	18.0	18.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Algebra / Applying  
MP14\_09 MP72081: Pair of equations for ticket price - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	13.5	8.9	57.0	8.9	57.0	13.1	20.9	13.1	13.9
Iran, Islamic Rep. of	1566	12.3	10.8	76.7	10.8	76.7	10.7	1.8	12.6	12.0
Kuwait	1080	11.0	10.1	81.9	10.1	81.9	7.1	0.9	10.8	11.2
South Africa (9)	3004	12.5	11.3	79.3	11.3	79.3	7.6	1.8	10.8	14.7
International Avg. (4)	7632	12.3	10.3	73.7	10.3	73.7	9.6	6.4	11.8	13.0

Mathematics: Geometry / Knowing  
MP14\_10 MP72140: Shape reflected over dotted line (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	6.5	3.6	52.6	3.6	52.6	21.3	22.6	9.7	3.6
Iran, Islamic Rep. of	1566	34.0	32.3	62.8	32.3	62.8	2.7	2.2	33.8	34.2
Kuwait	1080	20.9	19.8	75.0	19.8	75.0	3.9	1.2	23.3	18.5
South Africa (9)	3001	15.5	14.8	80.4	14.8	80.4	2.8	2.1	17.1	14.1
International Avg. (4)	7629	19.2	17.6	67.7	17.6	67.7	7.7	7.0	21.0	17.6

Mathematics: Geometry / Knowing  
MP14\_10A MP72140A: Shape reflected over dotted line - A - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	37.1	33.2	19.6	24.6	22.6	45.0	29.9
Iran, Islamic Rep. of	1566	60.0	37.2	55.9	4.7	2.2	57.5	62.5
Kuwait	1080	58.4	39.0	54.8	5.0	1.2	57.1	59.8
South Africa (9)	3006	50.3	46.4	46.9	4.6	2.1	52.6	48.0
International Avg. (4)	7634	51.5	39.0	44.3	9.7	7.0	53.0	50.1

Mathematics: Geometry / Knowing  
MP14\_10B MP72140B: Shape reflected over dotted line - B - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	56.0	29.3	23.0	25.1	22.6	59.6	52.7
Iran, Islamic Rep. of	1566	78.9	73.5	19.7	4.5	2.2	76.7	80.9
Kuwait	1080	63.2	59.2	34.4	5.2	1.2	66.8	59.5
South Africa (9)	3007	71.2	66.7	26.9	4.3	2.1	74.3	68.2
International Avg. (4)	7635	67.3	57.2	26.0	9.8	7.0	69.4	65.3

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Geometry / Knowing  
MP14\_10C MP72140C: Shape reflected over dotted line - C - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	61.2	19.8	31.2	26.5	22.6	60.9	61.6
Iran, Islamic Rep. of	1566	71.2	26.6	65.6	5.6	2.2	72.7	69.7
Kuwait	1080	65.1	32.6	60.9	5.4	1.2	67.9	62.3
South Africa (9)	3005	59.3	37.9	55.3	4.7	2.1	60.7	58.0
International Avg. (4)	7633	64.2	29.2	53.2	10.5	7.0	65.5	62.9

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Geometry / Knowing  
MP14\_10D MP72140D: Shape reflected over dotted line - D - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	70.3	36.5	15.4	25.5	22.6	71.8	68.8
Iran, Islamic Rep. of	1566	83.8	77.8	15.0	5.0	2.2	85.0	82.7
Kuwait	1080	75.6	71.0	22.9	4.9	1.2	75.4	75.9
South Africa (9)	3005	80.8	75.6	18.0	4.3	2.1	83.5	77.6
International Avg. (4)	7633	77.6	65.2	17.8	9.9	7.0	78.9	76.3

Mathematics: Geometry / Knowing  
MP14\_10E MP72140E: Shape reflected over dotted line - E - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	60.8	20.0	31.0	26.4	22.6	64.6	57.4
Iran, Islamic Rep. of	1566	74.1	24.0	68.7	5.0	2.2	74.5	73.6
Kuwait	1080	58.8	38.5	54.9	5.5	1.2	59.6	58.0
South Africa (9)	3007	56.0	40.9	52.1	5.0	2.1	58.4	53.7
International Avg. (4)	7635	62.4	30.8	51.7	10.5	7.0	64.3	60.7

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Geometry / Knowing  
MP14\_10F MP72140F: Shape reflected over dotted line - F - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1982	58.8	30.2	21.2	26.1	22.6	64.3	53.8
Iran, Islamic Rep. of	1566	79.9	74.5	18.7	4.6	2.2	81.1	78.8
Kuwait	1080	70.6	66.0	27.4	5.3	1.2	73.7	67.4
South Africa (9)	3007	68.8	64.2	29.2	4.5	2.1	71.2	66.1
International Avg. (4)	7635	69.5	58.7	24.1	10.1	7.0	72.6	66.5

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Geometry / Reasoning  
MP14\_11 MP72120: Value of angle x with parallel lines a and b - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1980	0.5	0.3	55.0	0.3	55.0	19.3	25.4	0.8	0.2
Iran, Islamic Rep. of	1566	20.0	16.2	65.0	16.2	65.0	16.3	2.5	20.1	19.9
Kuwait	1079	11.9	10.4	77.3	10.4	77.3	10.3	1.9	10.7	13.1
South Africa (9)	3004	10.7	10.0	83.7	10.0	83.7	3.8	2.5	10.5	11.0
International Avg. (4)	7629	10.8	9.2	70.3	9.2	70.3	12.4	8.1	10.5	11.0

Mathematics: Geometry / Reasoning  
MP14\_12 MP72131: Areas of triangles ABC and ABD - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1980	0.1	0.1	0.0	68.2	0.1	68.2	5.4	26.2	0.1	0.1
Iran, Islamic Rep. of	1566	1.7	1.5	0.0	90.8	1.5	90.8	5.1	2.6	1.5	1.9
Kuwait	1079	8.1	7.6	3.8	83.1	7.6	86.9	3.1	2.4	8.4	7.8
South Africa (9)	3005	3.4	3.2	0.3	89.7	3.2	90.0	3.6	3.1	2.6	4.3
International Avg. (4)	7630	3.3	3.1	1.0	82.9	3.1	84.0	4.3	8.6	3.1	3.5

Mathematics: Geometry / Applying  
MP14\_13 MP72147: Surface area of rectangular prism - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	0.3	0.2	1.4	53.0	0.2	54.4	18.2	27.3	0.7	0.0
Iran, Islamic Rep. of	1566	4.2	2.9	14.6	53.2	2.9	67.8	26.1	3.2	5.0	3.3
Kuwait	1079	6.9	6.0	4.8	76.3	6.0	81.0	10.3	2.7	3.8	10.3
South Africa (9)	3005	2.7	2.5	11.1	77.8	2.5	88.9	5.1	3.4	1.8	3.8
International Avg. (4)	7631	3.5	2.9	8.0	65.1	2.9	73.0	14.9	9.1	2.8	4.4

Mathematics: Data and Probability / Applying  
MP14\_14 MP72154: Bar graph of Internet users in world - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1980	26.2	8.1	18.2	16.4	19.8	8.2	29.3	23.8	28.6
Iran, Islamic Rep. of	1566	48.7	9.7	21.5	44.4	15.7	5.0	3.8	44.1	53.0
Kuwait	1079	38.8	12.5	23.0	36.9	22.8	2.0	2.8	34.9	42.7
South Africa (9)	3004	29.6	12.7	28.1	27.6	24.7	2.8	4.1	26.7	32.8
International Avg. (4)	7629	35.8	10.8	22.7	31.3	20.8	4.5	10.0	32.4	39.3

DIFF = Percent correct  
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Mathematics: Data and Probability / Applying  
MP14\_15 MP72192: Graph that best shows favorite fruit - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1978	34.8	19.4	22.8	4.9	8.7	14.3	29.9	37.4	32.4
Iran, Islamic Rep. of	1566	34.6	31.2	39.7	6.7	12.4	5.7	4.3	34.9	34.4
Kuwait	1076	36.9	34.4	40.2	7.6	11.1	3.5	3.2	36.3	37.4
South Africa (9)	3002	28.0	26.0	51.4	4.5	11.2	2.5	4.4	28.8	27.2
International Avg. (4)	7622	33.6	27.8	38.5	5.9	10.9	6.5	10.5	34.4	32.8

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Mathematics: Data and Probability / Reasoning  
MP14\_16 MP72161: Mean heights of basketball team - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Cote d'Ivoire	1981	2.3	1.5	63.1	1.5	63.1	3.5	32.0	2.0	2.5
Iran, Islamic Rep. of	1566	15.4	14.1	77.8	14.1	77.8	3.0	5.1	14.0	16.6
Kuwait	1079	14.7	13.8	80.3	13.8	80.3	1.6	4.3	14.6	14.8
South Africa (9)	3004	11.4	10.4	80.7	10.4	80.7	3.2	5.7	10.5	12.7
International Avg. (4)	7630	10.9	9.9	75.4	9.9	75.4	2.8	11.8	10.3	11.7

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College