

Mathematics: Number / Applying

MN04\_01 MN21061: Money Eric needs to buy a computer - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	633	55.4	54.0	14.4	16.1	13.0	1.5	1.0	48.2	62.0
	2023	1119	61.2	58.4	11.4	17.0	8.6	3.5	1.1	56.8	65.7
Morocco	2019	1116	49.7	48.6	12.2	18.8	18.2	1.9	0.2	47.1	52.4
	2023	1968	52.0	50.6	12.6	16.6	17.4	2.0	0.8	50.9	53.2
South Africa (5)	2019	1700	44.2	43.5	12.4	21.5	21.1	1.2	0.4	46.2	42.2
	2023	2612	43.3	42.8	15.3	18.9	21.7	1.1	0.1	45.5	41.3
International Avg. (3)	2019	3449	49.8	48.7	13.0	18.8	17.4	1.5	0.5	47.2	52.2
	2023	5699	52.2	50.6	13.1	17.5	15.9	2.2	0.7	51.1	53.4

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

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Mathematics: Number / Knowing  
MN04\_02 MN21067: 23/5 = - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	55.7	10.8	52.9	23.8	7.5	4.1	1.0	53.8	57.4
	2023	1119	52.0	12.1	47.8	22.4	9.7	6.7	1.3	51.6	52.2
Morocco	2019	1116	45.4	8.8	42.7	32.2	10.4	5.5	0.4	46.0	44.7
	2023	1968	51.7	12.0	48.5	23.2	10.0	5.5	0.8	50.4	53.0
South Africa (5)	2019	1700	52.1	7.7	50.2	29.9	8.6	3.2	0.4	53.4	50.8
	2023	2609	49.6	8.6	48.2	29.6	10.8	2.7	0.1	51.8	47.6
International Avg. (3)	2019	3450	51.0	9.1	48.6	28.7	8.8	4.3	0.6	51.1	51.0
	2023	5696	51.1	10.9	48.1	25.1	10.1	5.0	0.7	51.3	50.9

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

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Mathematics: Number / Knowing

MN04\_03 MN21046: Round 682 to nearest hundred - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	47.0	48.6	43.2	7.3	1.0	41.1	52.7
	2023	1119	48.6	42.9	40.6	15.2	1.4	42.6	55.0
Morocco	2019	1116	21.9	65.8	18.4	15.1	0.6	23.2	20.5
	2023	1968	23.4	63.7	19.5	15.8	1.0	21.0	25.9
South Africa (5)	2019	1700	33.4	63.2	31.7	4.6	0.5	32.9	33.9
	2023	2615	29.0	68.5	28.0	3.4	0.1	30.3	28.0
International Avg. (3)	2019	3450	34.1	59.2	31.1	9.0	0.7	32.4	35.7
	2023	5702	33.7	58.3	29.4	11.4	0.9	31.3	36.3

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 / Knowing

MN04\_04 MN21023: Number after 36 in Tim's number pattern - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	63.2	35.4	60.8	2.8	1.0	60.0	66.2
	2023	1119	64.5	32.4	58.9	7.2	1.5	64.0	64.7
Morocco	2019	1116	59.4	38.5	56.3	4.5	0.7	58.9	59.9
	2023	1961	51.3	43.8	46.1	8.9	1.3	53.4	49.1
South Africa (5)	2019	1700	66.8	32.3	64.8	2.3	0.6	70.6	63.0
	2023	2609	65.9	33.0	63.7	3.1	0.1	70.6	61.1
International Avg. (3)	2019	3450	63.1	35.4	60.7	3.2	0.7	63.2	63.0
	2023	5689	60.5	36.4	56.2	6.4	1.0	62.7	58.3

DIFF = Percent correct  
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Mathematics: Number / Reasoning

MN04\_05 MN21018: Make the number sentence true -  $A \times B = 8 + C$  - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	25.1	71.5	23.9	3.5	1.1	24.2	25.9
	2023	1119	25.4	68.2	23.3	7.1	1.5	25.7	25.0
Morocco	2019	1116	24.7	70.2	23.0	5.9	0.9	26.2	23.2
	2023	1961	26.2	69.1	24.5	5.0	1.5	25.3	27.0
South Africa (5)	2019	1700	12.1	85.0	11.7	2.6	0.6	14.6	9.7
	2023	2613	14.5	84.0	14.3	1.6	0.2	16.4	12.8
International Avg. (3)	2019	3450	20.6	75.6	19.6	4.0	0.9	21.7	19.6
	2023	5693	22.0	73.7	20.7	4.5	1.0	22.5	21.6

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 / Applying

MN04\_06 MN21020: Expression for plants at garden shop - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	38.9	21.7	23.3	12.9	36.9	3.8	1.4	37.5	40.3
	2023	1119	41.7	21.4	20.6	12.7	39.1	4.6	1.5	37.0	46.2
Morocco	2019	1116	40.3	18.2	22.8	15.8	38.5	3.2	1.4	40.8	39.9
	2023	1961	39.0	17.8	22.1	15.9	35.7	6.8	1.7	39.0	39.0
South Africa (5)	2019	1700	34.6	25.4	22.7	14.9	33.3	3.1	0.6	36.5	32.7
	2023	2607	34.7	27.2	22.0	14.9	34.0	1.7	0.2	36.0	33.7
International Avg. (3)	2019	3450	38.0	21.8	22.9	14.5	36.2	3.4	1.2	38.3	37.6
	2023	5687	38.5	22.1	21.6	14.5	36.3	4.4	1.1	37.3	39.6

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 / Applying  
MN04\_07 MN21069: Length of whole strip of paper - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	55.8	18.6	14.2	52.9	9.1	3.7	1.5	55.4	56.2
	2023	1119	56.6	18.1	14.3	53.4	8.6	3.7	1.9	57.4	55.4
Morocco	2019	1116	61.0	17.3	12.0	58.1	7.8	2.7	2.0	60.8	61.3
	2023	1961	61.4	15.4	10.9	58.4	10.4	2.8	2.0	59.9	62.9
South Africa (5)	2019	1700	55.3	21.2	12.4	54.2	10.1	1.5	0.7	57.8	52.8
	2023	2609	55.2	17.3	14.0	54.2	12.7	1.4	0.4	58.9	51.6
International Avg. (3)	2019	3450	57.4	19.0	12.9	55.1	9.0	2.6	1.4	58.0	56.8
	2023	5689	57.7	16.9	13.1	55.4	10.6	2.6	1.4	58.7	56.7

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

Mathematics: Measurement and Geometry / Applying  
MN04\_08 MN21040: Weight of boxes of bananas and oranges - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	49.7	15.2	19.0	47.0	13.3	3.6	1.8	44.2	54.8
	2023	1119	49.2	19.5	17.0	46.0	11.1	4.6	2.0	45.5	52.8
Morocco	2019	1116	45.3	19.6	18.8	42.4	12.8	4.0	2.4	44.9	45.6
	2023	1968	46.4	18.2	20.3	43.5	11.8	4.0	2.1	44.2	48.6
South Africa (5)	2019	1700	46.3	17.4	17.6	44.8	17.0	2.4	0.7	51.7	40.7
	2023	2608	45.4	19.4	15.5	44.6	18.8	1.3	0.4	48.0	42.9
International Avg. (3)	2019	3450	47.1	17.4	18.5	44.8	14.4	3.3	1.6	46.9	47.1
	2023	5695	47.0	19.0	17.6	44.7	13.9	3.3	1.5	45.9	48.1

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



Mathematics: Measurement and Geometry / Knowing

MN04\_09 MN21070: Area of large triangle in square cm - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	633	47.7	16.0	45.6	27.9	6.1	2.5	2.0	46.0	49.3
	2023	1119	41.5	19.3	38.1	30.1	4.4	5.5	2.6	41.3	41.6
Morocco	2019	1116	43.5	13.7	41.2	33.2	6.8	2.5	2.7	43.2	43.7
	2023	1968	50.0	12.7	47.2	26.9	7.6	3.0	2.7	46.4	53.7
South Africa (5)	2019	1700	23.4	28.5	22.9	40.5	6.1	1.1	1.0	24.1	22.7
	2023	2608	26.0	27.3	25.5	39.2	6.1	1.4	0.4	26.1	26.0
International Avg. (3)	2019	3449	38.2	19.4	36.6	33.9	6.3	2.0	1.9	37.8	38.5
	2023	5695	39.2	19.8	36.9	32.1	6.0	3.3	1.9	37.9	40.4

DIFF = Percent correct  
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Mathematics: Measurement and Geometry / Reasoning  
MN04\_10 MN21037: Largest metric unit of volume - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	43.0	40.8	6.8	4.4	42.9	3.1	2.0	34.4	50.9
	2023	1119	47.1	44.0	5.4	6.3	37.6	3.7	3.0	39.3	55.4
Morocco	2019	1116	40.1	37.4	6.8	4.7	44.4	3.5	3.2	37.3	42.9
	2023	1968	42.4	39.9	8.2	7.2	38.9	2.9	2.8	37.0	47.8
South Africa (5)	2019	1700	34.8	33.6	20.1	8.5	34.5	2.2	1.2	32.8	36.8
	2023	2607	34.8	33.8	15.0	12.7	35.7	2.4	0.4	32.1	37.3
International Avg. (3)	2019	3450	39.3	37.3	11.2	5.9	40.6	2.9	2.1	34.8	43.5
	2023	5694	41.4	39.2	9.6	8.7	37.4	3.0	2.1	36.2	46.8

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

Mathematics: Measurement and Geometry / Reasoning

MN04\_11 MN21033: Four small triangles to make shape - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	16.5	80.3	15.8	1.8	2.1	18.0	15.1
	2023	1119	15.1	78.7	14.0	3.9	3.3	17.3	12.4
Morocco	2019	1116	26.7	69.8	25.4	1.4	3.3	32.3	21.1
	2023	1968	16.1	79.6	15.3	2.1	3.0	17.4	14.8
South Africa (5)	2019	1700	20.3	76.9	19.6	2.2	1.3	22.2	18.3
	2023	2615	18.6	79.7	18.3	1.3	0.8	21.9	15.5
International Avg. (3)	2019	3450	21.2	75.7	20.3	1.8	2.2	24.2	18.2
	2023	5702	16.6	79.3	15.9	2.4	2.4	18.9	14.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data / Knowing

MN04\_12 MN21001: Tally chart of ways to school - least students - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	633	55.3	16.8	12.3	13.4	52.6	2.9	2.1	55.0	55.6
	2023	1115	56.2	17.4	10.3	12.7	51.9	4.0	3.6	56.6	55.5
Morocco	2019	1116	32.5	32.8	14.1	16.7	30.5	2.4	3.5	32.5	32.4
	2023	1968	44.9	22.8	13.4	15.2	41.9	3.5	3.2	44.3	45.6
South Africa (5)	2019	1700	55.4	4.7	7.8	30.1	52.9	2.6	1.9	61.6	49.2
	2023	2607	47.7	12.3	17.5	21.4	46.7	1.3	0.7	49.7	45.7
International Avg. (3)	2019	3449	47.7	18.1	11.4	20.1	45.4	2.6	2.5	49.7	45.7
	2023	5690	49.6	17.5	13.7	16.4	46.8	2.9	2.5	50.2	48.9

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Mathematics: Data / Applying  
MN04\_13 MN21060: Bar graph of books in a classroom - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	63.6	24.5	12.3	47.4	13.1	2.7	68.8	58.5
	2023	1115	58.9	26.5	9.9	40.2	18.6	4.9	57.0	60.7
Morocco	2019	1116	70.3	17.8	9.5	48.6	20.1	4.0	73.9	66.7
	2023	1968	78.1	12.3	12.0	59.3	12.3	4.2	80.1	76.1
South Africa (5)	2019	1700	82.8	9.8	10.8	68.2	8.2	2.9	85.4	80.2
	2023	2613	70.5	18.5	12.5	53.0	14.9	1.1	72.9	68.1
International Avg. (3)	2019	3450	72.3	17.4	10.9	54.8	13.8	3.2	76.0	68.5
	2023	5696	69.2	19.1	11.4	50.8	15.2	3.4	70.0	68.3

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

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Mathematics: Data / Applying  
MN04\_14 MN21003: Statements about cars (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	64.6	15.6	32.4	41.8	6.2	4.0	65.8	63.5
	2023	1115	66.8	14.9	25.6	43.1	8.9	7.5	68.3	65.1
Morocco	2019	1116	53.3	29.1	27.5	35.2	2.4	5.7	58.2	48.6
	2023	1968	56.7	25.7	26.2	37.6	5.0	5.6	58.5	54.8
South Africa (5)	2019	1700	54.9	22.5	38.7	31.5	3.0	4.3	55.9	53.8
	2023	2616	51.6	25.7	33.1	28.5	9.5	3.1	55.5	47.7
International Avg. (3)	2019	3447	57.6	22.4	32.9	36.2	3.9	4.7	60.0	55.3
	2023	5699	58.4	22.1	28.3	36.4	7.8	5.4	60.8	55.9

DIFF = Percent correct  
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Mathematics: Data / Applying

MN04\_14A MN21003A: Statements about cars - 2 red cars - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	94.2	84.5	5.2	6.4	4.0	94.6	93.9
	2023	1115	94.0	76.7	4.9	10.9	7.5	94.4	93.5
Morocco	2019	1116	86.3	75.5	12.0	6.7	5.7	89.3	83.1
	2023	1968	87.7	76.6	10.7	7.1	5.6	89.6	85.8
South Africa (5)	2019	1700	95.0	86.9	4.6	4.2	4.3	95.9	94.0
	2023	2616	89.9	76.4	8.6	11.8	3.1	93.3	86.3
International Avg. (3)	2019	3448	91.8	82.3	7.3	5.7	4.7	93.3	90.3
	2023	5699	90.5	76.6	8.1	9.9	5.4	92.4	88.5

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

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Mathematics: Data / Applying

MN04\_14B MN21003B: Statements about cars - red and black cars - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	89.1	9.7	79.1	7.3	4.0	89.2	89.1
	2023	1115	90.8	7.4	73.1	12.0	7.5	90.9	90.6
Morocco	2019	1116	82.9	14.9	72.1	7.3	5.7	87.9	77.9
	2023	1968	84.3	13.4	71.9	9.1	5.6	86.2	82.2
South Africa (5)	2019	1700	86.5	12.2	77.8	5.7	4.3	87.7	85.2
	2023	2616	82.3	14.9	69.0	13.0	3.1	86.4	78.1
International Avg. (3)	2019	3448	86.1	12.2	76.3	6.8	4.7	88.3	84.0
	2023	5699	85.8	11.9	71.4	11.4	5.4	87.8	83.6

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 / Applying

MN04\_14C MN21003C: Statements about cars - black and blue cars - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	86.7	11.6	75.5	8.9	4.0	84.8	88.6
	2023	1115	87.5	9.9	69.0	13.7	7.5	90.1	84.6
Morocco	2019	1116	76.8	19.7	65.2	9.4	5.7	79.6	74.0
	2023	1968	80.3	16.5	67.4	10.5	5.6	83.1	77.3
South Africa (5)	2019	1700	76.1	21.3	67.8	6.6	4.3	79.0	73.2
	2023	2616	74.2	21.4	61.5	14.0	3.1	76.8	71.7
International Avg. (3)	2019	3447	79.9	17.5	69.5	8.3	4.7	81.1	78.6
	2023	5699	80.7	15.9	65.9	12.7	5.4	83.3	77.9

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 / Applying

MN04\_14D MN21003D: Statements about cars - silver cars - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	58.8	51.8	36.3	7.9	4.0	59.2	58.4
	2023	1115	67.0	53.7	26.4	12.4	7.5	65.3	68.6
Morocco	2019	1116	60.5	51.2	33.5	9.5	5.7	61.2	59.7
	2023	1968	60.9	51.0	32.8	10.7	5.6	61.3	60.4
South Africa (5)	2019	1700	52.3	46.7	42.5	6.4	4.3	49.0	55.8
	2023	2616	54.9	45.5	37.4	14.0	3.1	53.2	56.7
International Avg. (3)	2019	3448	57.2	49.9	37.5	7.9	4.7	56.5	58.0
	2023	5699	60.9	50.1	32.2	12.4	5.4	60.0	61.9

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing  
MN09\_01 MN11019: 482 - 27 = - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	50.4	10.8	9.2	48.1	27.3	2.3	2.3	52.4	48.6
	2023	1102	50.9	11.4	7.7	47.4	26.5	3.5	3.4	47.0	54.7
Morocco	2019	1106	54.5	7.3	11.9	51.3	23.6	4.9	0.9	53.4	55.7
	2023	1894	57.0	7.0	8.6	56.2	26.8	1.2	0.1	57.4	56.6
South Africa (5)	2019	1701	46.2	11.6	10.6	44.4	29.6	3.1	0.7	52.7	39.9
	2023	2570	41.9	16.7	11.1	40.8	28.7	2.3	0.3	42.7	41.0
International Avg. (3)	2019	3435	50.4	9.9	10.6	47.9	26.8	3.4	1.3	52.8	48.0
	2023	5566	49.9	11.7	9.2	48.1	27.4	2.4	1.3	49.0	50.8

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

Mathematics: Number / Knowing

MN09\_02 MN11145: Total flowers planted by Carol and Katrin - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	45.2	51.4	42.5	3.8	2.3	44.9	45.6
	2023	1102	50.1	42.3	42.5	11.6	3.6	46.0	54.1
Morocco	2019	1106	56.5	40.4	52.5	6.0	1.1	57.4	55.4
	2023	1953	62.6	34.8	58.3	5.3	1.6	63.6	61.8
South Africa (5)	2019	1701	53.2	45.4	51.5	2.2	0.8	58.4	47.8
	2023	2574	48.4	50.8	47.7	1.2	0.3	53.3	43.4
International Avg. (3)	2019	3436	51.6	45.7	48.8	4.0	1.4	53.6	49.6
	2023	5629	53.7	42.6	49.5	6.0	1.8	54.3	53.1

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

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Mathematics: Number / Knowing

MN09\_03 MN11211: Total number of players in a soccer club - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	51.5	10.3	26.6	48.5	8.6	3.6	2.3	45.7	57.0
	2023	1102	53.2	13.0	24.8	49.0	5.2	3.6	4.4	43.4	62.5
Morocco	2019	1106	48.9	16.5	26.7	46.1	5.1	4.5	1.1	47.0	51.0
	2023	1880	48.4	17.5	27.3	47.7	6.0	1.2	0.3	43.2	52.9
South Africa (5)	2019	1701	41.1	11.0	37.3	39.8	8.8	2.1	1.0	39.2	43.1
	2023	2570	38.1	9.2	40.5	37.3	10.8	1.9	0.3	37.1	39.5
International Avg. (3)	2019	3435	47.2	12.6	30.2	44.8	7.5	3.4	1.5	44.0	50.4
	2023	5552	46.6	13.2	30.9	44.7	7.4	2.2	1.6	41.2	51.6

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

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Mathematics: Number / Applying

MN09\_04 MN11014: Smallest 3-digit number with 4, 1, 8 - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	39.1	56.6	36.3	4.4	2.7	39.5	38.8
	2023	1101	44.4	47.9	38.3	9.2	4.6	43.9	44.9
Morocco	2019	1106	45.5	50.5	42.1	6.3	1.1	48.7	41.9
	2023	1953	41.0	54.4	37.9	5.3	2.4	41.9	40.3
South Africa (5)	2019	1701	22.1	73.5	20.8	4.5	1.1	23.3	21.0
	2023	2575	16.9	80.1	16.3	3.3	0.4	20.0	13.8
International Avg. (3)	2019	3436	35.6	60.2	33.1	5.1	1.6	37.2	33.9
	2023	5629	34.1	60.8	30.8	5.9	2.5	35.3	33.0

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data / Applying

MN09\_05 MN11300: Find total number of cookies sold with bar graph - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	27.0	67.8	25.0	4.4	2.7	24.0	29.6
	2023	1102	29.6	59.0	24.9	11.0	5.1	26.5	32.5
Morocco	2019	1106	26.9	66.5	24.5	7.9	1.2	28.5	25.3
	2023	1953	43.2	52.7	40.1	4.1	3.1	41.7	44.5
South Africa (5)	2019	1701	30.4	67.5	29.5	1.5	1.6	35.4	25.7
	2023	2575	20.9	77.5	20.4	1.5	0.5	23.3	18.5
International Avg. (3)	2019	3436	28.1	67.3	26.3	4.6	1.8	29.3	26.9
	2023	5630	31.2	63.1	28.5	5.5	2.9	30.5	31.8

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 / Applying

MN09\_06 MN11028: Number Jim left out counting by threes - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	42.2	53.8	39.3	4.3	2.7	43.6	40.9
	2023	1102	44.2	48.1	38.1	8.6	5.2	41.1	47.3
Morocco	2019	1106	37.2	57.8	34.3	6.6	1.3	35.7	38.9
	2023	1953	43.2	51.4	39.1	6.1	3.4	43.2	43.2
South Africa (5)	2019	1701	49.0	49.5	47.5	1.1	1.8	52.6	45.4
	2023	2576	43.3	55.8	42.6	0.9	0.6	50.6	36.0
International Avg. (3)	2019	3436	42.8	53.7	40.4	4.0	1.9	44.0	41.7
	2023	5631	43.6	51.8	40.0	5.2	3.1	45.0	42.2

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



Mathematics: Number / Knowing  
MN09\_07 MN11231: 25.6 - 3 = - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	33.2	31.3	48.3	7.3	7.3	2.7	3.1	25.1	40.8
	2023	1102	43.4	39.4	40.4	6.2	4.9	3.8	5.3	35.8	50.6
Morocco	2019	1105	27.1	26.1	55.8	9.5	4.9	2.3	1.4	27.9	26.3
	2023	1846	28.1	27.8	53.2	11.0	6.8	0.7	0.6	24.4	31.3
South Africa (5)	2019	1701	18.4	17.5	63.4	8.1	6.2	2.8	1.9	17.4	19.4
	2023	2572	21.7	21.2	62.4	8.2	5.9	1.7	0.6	21.8	21.7
International Avg. (3)	2019	3435	26.2	25.0	55.9	8.3	6.1	2.6	2.2	23.5	28.8
	2023	5520	31.1	29.5	52.0	8.4	5.9	2.0	2.2	27.4	34.5

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

Mathematics: Number / Knowing

MN09\_08 MN11061: Identify picture with 2/3 shaded - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	75.3	9.0	70.5	7.2	6.9	3.2	3.1	78.4	72.3
	2023	1102	74.8	9.8	67.5	8.8	4.1	4.3	5.5	73.9	75.6
Morocco	2019	1104	53.4	19.7	47.9	10.1	11.9	8.9	1.5	55.6	51.1
	2023	1842	74.3	10.3	72.0	7.6	7.0	2.6	0.6	77.7	71.3
South Africa (5)	2019	1701	84.1	6.4	76.1	5.2	2.9	7.2	2.2	87.6	80.6
	2023	2563	78.7	7.8	74.9	7.3	5.1	4.2	0.7	83.2	74.2
International Avg. (3)	2019	3434	70.9	11.7	64.8	7.5	7.2	6.4	2.3	73.9	68.0
	2023	5507	75.9	9.3	71.4	7.9	5.4	3.7	2.2	78.2	73.7

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

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Mathematics: Measurement and Geometry / Knowing  
MN09\_09 MN11045: Identify units for length of a pencil - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	54.3	51.1	23.0	12.3	7.7	2.9	3.1	53.2	55.3
	2023	1102	55.6	50.8	21.6	10.8	8.1	2.6	6.0	48.9	61.9
Morocco	2019	1106	50.2	47.7	26.3	13.1	8.0	3.1	1.8	49.3	51.1
	2023	1836	47.0	46.1	28.5	14.8	8.9	1.0	0.8	44.8	48.8
South Africa (5)	2019	1701	48.6	46.5	20.3	16.8	12.0	1.7	2.7	53.5	43.8
	2023	2567	43.2	42.1	21.4	23.1	10.8	1.9	0.8	46.7	39.6
International Avg. (3)	2019	3436	51.0	48.4	23.2	14.0	9.2	2.6	2.6	52.0	50.1
	2023	5505	48.6	46.4	23.8	16.2	9.3	1.8	2.5	46.8	50.1

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

Mathematics: Measurement and Geometry / Knowing  
MN09\_10 MN11265: Identify the cube - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	85.0	5.1	5.7	3.3	80.2	2.4	3.3	88.1	82.1
	2023	1102	86.3	4.9	3.7	4.0	78.8	2.2	6.5	88.6	84.0
Morocco	2019	1104	87.4	3.1	3.5	5.2	82.3	3.9	2.0	86.4	88.5
	2023	1837	87.5	2.7	3.0	6.5	85.4	1.6	0.8	89.9	85.3
South Africa (5)	2019	1701	64.1	14.2	16.4	3.3	60.4	2.8	3.0	67.5	60.7
	2023	2566	52.4	20.9	18.7	6.1	50.3	3.2	0.8	54.5	50.4
International Avg. (3)	2019	3434	78.8	7.5	8.6	3.9	74.3	3.0	2.8	80.7	77.1
	2023	5505	75.4	9.5	8.5	5.5	71.5	2.3	2.7	77.7	73.2

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

Mathematics: Measurement and Geometry / Reasoning

MN09\_11 MN11154: Number of Shape M and Shape N Joe needs - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	35.0	53.1	13.2	25.6	4.5	3.5	36.5	33.7
	2023	1103	39.0	44.0	15.1	25.3	8.9	6.6	37.2	40.6
Morocco	2019	1106	37.5	48.6	13.4	26.5	9.5	2.0	40.8	34.1
	2023	1953	40.7	46.7	12.0	30.2	6.8	4.3	41.5	40.1
South Africa (5)	2019	1701	33.6	53.8	19.0	22.5	1.7	3.0	35.0	32.3
	2023	2575	31.0	56.6	21.3	19.5	1.6	0.9	35.0	26.9
International Avg. (3)	2019	3436	35.4	51.9	15.2	24.9	5.2	2.8	37.4	33.4
	2023	5631	36.9	49.1	16.1	25.0	5.8	4.0	37.9	35.9

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

Mathematics: Measurement and Geometry / Reasoning

MN09\_12 MN11240: Time Duncan needs to leave for School - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	32.5	30.0	19.2	21.9	21.0	2.7	5.2	36.4	28.9
	2023	1103	36.1	32.0	16.8	17.2	22.6	2.6	8.9	36.2	36.1
Morocco	2019	1105	27.9	25.5	22.7	26.1	17.4	4.8	3.5	27.8	27.9
	2023	1815	32.0	31.2	21.4	26.2	18.6	1.8	0.9	30.6	33.3
South Africa (5)	2019	1701	39.0	36.3	23.7	16.2	16.9	3.0	4.0	39.2	38.6
	2023	2563	35.4	34.1	22.7	18.7	20.8	2.4	1.3	37.1	33.8
International Avg. (3)	2019	3434	33.1	30.6	21.9	21.4	18.4	3.5	4.2	34.5	31.8
	2023	5481	34.5	32.4	20.3	20.7	20.6	2.3	3.7	34.6	34.4

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

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Mathematics: Number / Knowing

MN11\_01 MN11009: Number with 2 in tens and 8 in thousands - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	60.7	11.1	16.2	57.9	10.1	4.1	0.6	60.2	61.2
	2023	1122	62.5	13.9	13.4	59.4	8.3	3.4	1.4	62.9	62.0
Morocco	2019	1101	65.9	10.0	13.6	56.4	5.6	14.2	0.2	66.3	65.6
	2023	1960	65.4	10.8	13.6	58.7	6.7	9.7	0.6	67.5	63.5
South Africa (5)	2019	1681	53.7	18.6	12.7	50.9	12.5	5.2	0.2	59.7	47.8
	2023	2595	54.3	18.6	12.8	53.2	13.3	2.1	0.0	56.5	52.0
International Avg. (3)	2019	3417	60.1	13.3	14.1	55.0	9.4	7.8	0.3	62.0	58.2
	2023	5677	60.7	14.5	13.3	57.1	9.4	5.1	0.7	62.3	59.2

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

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Mathematics: Number / Knowing

MN11\_02 MN11024: Total pages Linda read - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	33.5	62.6	31.5	5.1	0.8	32.9	34.0
	2023	1122	35.0	57.0	30.7	10.8	1.5	31.8	38.2
Morocco	2019	1101	46.2	50.3	43.3	5.9	0.5	44.8	47.6
	2023	1960	46.7	50.1	43.8	5.5	0.7	48.7	44.8
South Africa (5)	2019	1681	34.6	64.2	33.9	1.3	0.5	39.7	29.6
	2023	2602	33.1	66.0	32.6	1.3	0.0	39.1	27.5
International Avg. (3)	2019	3417	38.1	59.0	36.2	4.1	0.6	39.2	37.0
	2023	5684	38.2	57.7	35.7	5.9	0.7	39.9	36.8

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  
MN11\_03 MN11134: 23 divided by 4 - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	51.9	9.3	48.5	17.1	18.6	5.7	0.8	53.5	50.4
	2023	1122	53.8	10.5	50.6	15.4	17.7	4.1	1.7	52.6	55.0
Morocco	2019	1101	55.1	8.8	51.1	12.3	20.5	6.6	0.6	50.2	59.6
	2023	1960	59.1	9.1	55.6	13.4	16.1	5.2	0.7	60.0	58.2
South Africa (5)	2019	1681	49.0	10.3	46.1	15.5	22.2	5.4	0.5	52.3	45.9
	2023	2597	47.5	12.0	46.0	17.6	21.3	3.1	0.1	49.8	45.4
International Avg. (3)	2019	3417	52.0	9.4	48.6	15.0	20.4	5.9	0.6	52.0	52.0
	2023	5679	53.4	10.5	50.7	15.5	18.3	4.1	0.8	54.1	52.9

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

Mathematics: Number / Knowing  
MN11\_04 MN11212: 512 x 3 = - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	49.4	47.2	46.0	5.4	1.4	52.6	46.4
	2023	1122	52.2	42.5	46.5	9.2	1.8	48.4	56.1
Morocco	2019	1101	63.6	35.2	61.5	2.6	0.7	61.7	65.5
	2023	1960	68.7	29.7	65.1	4.3	0.9	67.7	69.6
South Africa (5)	2019	1681	39.0	59.2	37.8	2.4	0.5	43.0	35.1
	2023	2602	36.3	62.6	35.7	1.4	0.2	39.5	33.5
International Avg. (3)	2019	3417	50.7	47.2	48.5	3.5	0.9	52.4	49.0
	2023	5684	52.4	45.0	49.1	5.0	0.9	51.8	53.1

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

Mathematics: Number / Applying

MN11\_05 MN11253: Expression for the number of apples Mona has - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	53.9	21.7	50.9	14.9	7.0	3.7	1.8	57.4	50.7
	2023	1122	52.4	27.4	49.5	11.4	6.1	3.6	2.0	53.0	51.8
Morocco	2019	1101	49.7	19.3	46.7	19.5	8.4	5.4	0.7	52.9	46.8
	2023	1960	50.5	24.3	48.5	14.2	9.0	2.9	1.1	53.2	48.1
South Africa (5)	2019	1681	53.4	22.2	51.9	13.5	9.4	2.3	0.6	56.1	50.9
	2023	2597	52.7	18.0	51.6	13.8	14.4	2.0	0.2	57.8	47.8
International Avg. (3)	2019	3417	52.3	21.1	49.8	16.0	8.3	3.8	1.1	55.5	49.5
	2023	5679	51.9	23.2	49.9	13.1	9.8	2.8	1.1	54.7	49.2

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

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Mathematics: Number / Reasoning

MN11\_06 MN11221: Number of people Sharon sees in boats - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	31.9	39.6	16.8	7.7	30.0	4.0	1.8	31.7	32.0
	2023	1122	35.6	37.7	12.1	9.7	32.8	5.2	2.5	33.8	37.4
Morocco	2019	1100	31.9	43.0	10.8	10.2	30.0	5.2	0.8	30.2	33.5
	2023	1960	32.6	43.0	10.6	10.6	31.0	3.7	1.2	31.6	33.4
South Africa (5)	2019	1681	27.2	42.6	19.7	8.5	26.5	1.8	1.0	27.6	26.8
	2023	2598	28.3	41.0	20.1	9.2	27.8	1.5	0.4	30.2	26.6
International Avg. (3)	2019	3416	30.3	41.7	15.8	8.8	28.8	3.7	1.2	29.8	30.8
	2023	5680	32.1	40.6	14.3	9.8	30.5	3.5	1.3	31.9	32.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing

MN11\_07 MN11146: Write the shaded fraction of the rectangle - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	26.7	69.3	25.2	3.7	1.8	31.1	22.5
	2023	1122	25.8	66.0	22.9	8.4	2.6	25.2	26.4
Morocco	2019	1101	13.3	75.1	11.5	12.5	0.9	10.6	15.8
	2023	1960	25.1	68.8	23.1	6.8	1.3	27.5	22.9
South Africa (5)	2019	1681	26.0	71.9	25.3	1.7	1.0	30.7	21.4
	2023	2602	26.8	72.3	26.5	0.7	0.5	31.4	22.6
International Avg. (3)	2019	3417	22.0	72.1	20.7	6.0	1.3	24.2	19.9
	2023	5684	25.9	69.0	24.2	5.3	1.5	28.0	23.9

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

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Mathematics: Number / Applying

MN11\_08 MN11177: Amount of water to fill up a jar - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	20.4	72.9	18.7	6.5	2.0	18.8	21.9
	2023	1122	24.6	64.3	20.9	11.7	3.0	21.4	27.7
Morocco	2019	1101	15.4	73.9	13.4	11.6	1.1	10.2	20.1
	2023	1960	18.4	73.8	16.6	8.0	1.6	15.7	20.7
South Africa (5)	2019	1681	13.6	83.4	13.1	2.4	1.1	14.5	12.8
	2023	2602	12.9	85.6	12.7	1.3	0.5	13.1	12.8
International Avg. (3)	2019	3417	16.4	76.7	15.1	6.8	1.4	14.5	18.3
	2023	5684	18.6	74.6	16.7	7.0	1.7	16.8	20.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Measurement and Geometry / Applying  
MN11\_09 MN11158: Draw a right angle using line AB - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	37.9	54.5	33.3	10.3	2.0	40.3	35.6
	2023	1122	47.1	41.8	37.2	17.8	3.2	49.6	44.3
South Africa (5)	2019	1681	21.9	70.8	19.8	8.2	1.1	21.4	22.4
	2023	2602	35.0	58.0	31.2	10.0	0.7	36.8	33.2
International Avg. (2)	2019	2316	29.9	62.7	26.6	9.2	1.5	30.9	29.0
	2023	3724	41.0	49.9	34.2	13.9	2.0	43.2	38.8

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

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Mathematics: Number / Applying

MN11\_10 MN11002: Amount of money Sue has left after buying juice - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	34.0	32.4	32.9	20.4	9.7	2.7	2.0	31.8	35.9
	2023	1122	35.1	32.1	30.2	19.1	9.9	4.9	3.7	32.0	38.4
Morocco	2019	1101	29.1	26.4	31.7	18.0	14.5	8.1	1.3	30.0	28.3
	2023	1960	28.2	26.3	34.2	20.1	12.6	4.5	2.2	29.7	26.8
South Africa (5)	2019	1681	27.5	26.6	30.6	21.6	17.9	2.0	1.3	26.1	29.1
	2023	2593	27.2	26.6	29.3	23.0	19.0	1.4	0.7	28.3	26.0
International Avg. (3)	2019	3417	30.2	28.4	31.7	20.0	14.0	4.3	1.5	29.3	31.1
	2023	5675	30.2	28.3	31.3	20.8	13.8	3.6	2.2	30.0	30.4

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

Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Measurement and Geometry / Knowing  
MN11\_11A MN11182A: Boxes on a table - tallest - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	78.6	5.5	6.5	75.8	8.7	1.6	2.0	81.5	75.9
	2023	1122	79.7	5.4	7.6	75.5	6.3	1.4	3.9	83.2	76.1
Morocco	2019	1101	77.6	2.4	9.6	71.6	8.6	5.9	1.8	78.2	77.1
	2023	1959	78.9	3.6	8.9	75.2	7.5	2.5	2.4	83.3	74.9
South Africa (5)	2019	1681	72.4	2.8	8.0	70.7	16.2	0.9	1.3	74.7	70.1
	2023	2596	66.7	5.7	9.8	65.3	17.1	1.4	0.7	72.5	61.5
International Avg. (3)	2019	3417	76.2	3.6	8.0	72.7	11.2	2.8	1.7	78.2	74.4
	2023	5677	75.1	4.9	8.8	72.0	10.3	1.7	2.3	79.6	70.8

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

Mathematics: Measurement and Geometry / Knowing

MN11\_11B MN11182B: Boxes on a table - holds the most - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	70.8	6.8	67.1	9.5	11.4	3.4	2.0	72.3	69.5
	2023	1122	73.4	4.5	68.2	8.4	11.9	3.0	4.1	74.4	72.4
Morocco	2019	1101	67.8	5.2	63.2	14.0	10.8	4.9	1.8	67.6	68.0
	2023	1959	65.5	7.4	61.8	11.0	14.1	3.2	2.5	65.8	65.3
South Africa (5)	2019	1681	59.2	6.4	57.8	15.7	17.7	1.0	1.4	60.9	57.8
	2023	2597	56.4	8.8	55.0	15.5	18.2	1.7	0.8	62.8	50.6
International Avg. (3)	2019	3417	66.0	6.1	62.7	13.1	13.3	3.1	1.7	66.9	65.1
	2023	5678	65.1	6.9	61.6	11.6	14.7	2.6	2.5	67.6	62.8

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

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Mathematics: Measurement and Geometry / Reasoning  
MN11\_12 MN11272: Cost of fencing Fred's yard - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	9.3	75.9	9.6	3.4	9.0	2.1	7.7	10.7
	2023	1120	10.5	69.4	7.7	4.8	13.4	4.7	8.1	13.0
Morocco	2019	1101	7.0	78.2	6.8	2.8	10.3	2.0	6.1	7.8
	2023	1959	17.1	68.1	13.7	8.6	6.9	2.7	14.7	19.3
South Africa (5)	2019	1681	8.1	82.8	10.4	2.6	2.9	1.4	9.3	7.0
	2023	2602	16.9	67.7	24.5	3.9	2.8	1.0	16.7	17.1
International Avg. (3)	2019	3417	8.1	78.9	9.0	2.9	7.4	1.8	7.7	8.5
	2023	5681	14.8	68.4	15.3	5.8	7.7	2.8	13.2	16.5

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

Mathematics: Number / Knowing

MN12\_01 MN21066: Smallest four-digit number - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	60.8	20.0	9.4	9.2	59.8	1.7	0.0	53.3	67.5
	2023	1124	64.6	18.0	7.9	8.7	63.3	1.7	0.4	56.3	73.1
Morocco	2019	1107	62.0	18.8	5.7	11.2	58.4	5.6	0.2	55.9	67.6
	2023	1969	59.0	21.2	6.9	11.8	57.3	2.4	0.5	54.6	63.2
South Africa (5)	2019	1686	57.3	23.9	7.5	10.6	56.5	1.2	0.4	53.4	61.1
	2023	2595	58.9	19.1	9.8	11.7	58.2	1.0	0.2	57.8	59.9
International Avg. (3)	2019	3423	60.1	20.9	7.5	10.3	58.2	2.8	0.2	54.2	65.4
	2023	5688	60.8	19.4	8.2	10.7	59.6	1.7	0.3	56.2	65.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Knowing

MN12\_02 MN21045: Number that is a multiple of 7 - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	51.8	10.3	7.3	29.5	50.5	2.5	0.0	50.7	52.7
	2023	1124	44.8	14.3	8.0	31.0	43.2	3.0	0.5	41.9	47.8
Morocco	2019	1107	61.1	7.7	7.8	21.4	57.8	5.1	0.2	60.3	61.8
	2023	1969	64.6	9.6	8.4	15.9	62.0	3.6	0.5	65.5	63.8
South Africa (5)	2019	1686	54.0	9.4	6.9	28.8	53.0	1.5	0.4	57.2	50.7
	2023	2594	49.5	10.2	7.8	31.8	48.8	1.1	0.2	53.2	46.2
International Avg. (3)	2019	3423	55.6	9.1	7.3	26.5	53.7	3.1	0.2	56.1	55.1
	2023	5687	53.0	11.4	8.1	26.2	51.3	2.6	0.4	53.5	52.6

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 / Applying  
MN12\_03 MN21064: Number of cards for Noni's photos - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	30.8	18.2	16.3	30.1	33.1	2.3	0.0	33.4	28.5
	2023	1124	31.3	14.0	17.5	30.4	35.0	2.5	0.6	30.1	32.6
Morocco	2019	1107	28.3	15.3	15.0	26.5	36.9	6.0	0.2	28.8	27.8
	2023	1970	27.8	18.2	16.4	27.1	35.6	2.2	0.5	29.7	26.1
South Africa (5)	2019	1686	27.8	12.0	17.7	27.4	41.4	0.9	0.6	29.5	26.0
	2023	2596	30.2	15.5	19.6	29.7	33.6	1.3	0.2	30.9	29.6
International Avg. (3)	2019	3423	29.0	15.2	16.3	28.0	37.1	3.1	0.3	30.6	27.4
	2023	5690	29.8	15.9	17.8	29.1	34.7	2.0	0.4	30.3	29.4

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

Mathematics: Number / Reasoning

MN12\_04 MN21051: Numbers of markers and pencils in boxes - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	38.4	59.7	37.2	2.9	0.1	38.5	38.3
	2023	1125	40.1	57.4	38.5	3.0	1.1	37.7	42.6
Morocco	2019	1107	29.7	66.1	27.9	5.5	0.5	31.1	28.3
	2023	1970	29.6	66.7	28.0	4.6	0.6	28.0	31.1
South Africa (5)	2019	1686	29.1	69.7	28.6	1.2	0.6	31.8	26.1
	2023	2596	27.4	71.6	27.0	1.2	0.2	29.9	25.2
International Avg. (3)	2019	3423	32.4	65.2	31.2	3.2	0.4	33.8	30.9
	2023	5691	32.4	65.2	31.2	3.0	0.6	31.9	33.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing

MN12\_05 MN21054: Value of M when  $4 + 4 + M = 12$  - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	79.7	76.6	10.8	4.5	4.2	3.7	0.1	80.2	79.3
	2023	1124	82.4	79.7	12.6	2.0	2.4	2.1	1.2	83.9	81.0
Morocco	2019	1107	77.9	73.9	11.0	5.9	4.1	4.4	0.7	80.2	75.8
	2023	1970	76.1	72.0	12.5	6.3	3.8	4.6	0.9	77.8	74.5
South Africa (5)	2019	1686	84.1	80.8	8.3	3.3	3.7	3.2	0.7	86.0	82.0
	2023	2593	80.0	78.0	10.1	4.4	5.0	2.3	0.2	83.4	76.9
International Avg. (3)	2019	3423	80.6	77.1	10.1	4.5	4.0	3.8	0.5	82.1	79.0
	2023	5687	79.5	76.6	11.7	4.2	3.7	3.0	0.8	81.7	77.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Number / Reasoning

MN12\_06 MN21025: Complete table that uses Jim's rule - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	41.8	48.1	11.2	33.0	7.7	0.1	41.4	42.2
	2023	1123	47.1	40.9	12.7	35.7	9.4	1.3	48.6	45.5
Morocco	2019	1107	43.7	43.6	14.9	32.2	8.6	0.7	43.7	43.7
	2023	1970	41.4	47.2	10.4	31.8	9.3	1.2	40.7	42.0
South Africa (5)	2019	1686	39.0	52.4	12.8	31.1	2.7	1.1	42.9	34.9
	2023	2597	33.2	58.9	11.6	26.3	2.9	0.3	35.5	31.2
International Avg. (3)	2019	3423	41.5	48.0	12.9	32.1	6.3	0.6	42.7	40.3
	2023	5690	40.5	49.0	11.6	31.3	7.2	1.0	41.6	39.6

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Knowing  
MN12\_07 MN21038: Possible weight of fourth grade student - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	49.6	29.4	46.8	10.4	7.8	4.4	1.2	51.6	47.8
	2023	1123	54.1	27.2	51.4	9.6	6.7	3.4	1.7	51.7	56.6
Morocco	2019	1107	47.3	29.0	43.5	9.8	9.6	7.0	1.0	43.0	51.3
	2023	1970	49.6	27.1	46.7	10.3	10.0	4.1	1.7	47.5	51.6
South Africa (5)	2019	1686	41.4	21.0	40.0	14.8	20.9	2.1	1.2	40.9	42.0
	2023	2591	38.8	20.3	37.7	18.1	21.1	2.4	0.4	37.9	39.5
International Avg. (3)	2019	3422	46.1	26.5	43.4	11.7	12.7	4.5	1.1	45.2	47.0
	2023	5684	47.5	24.9	45.3	12.7	12.6	3.3	1.3	45.7	49.3

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

Mathematics: Measurement and Geometry / Applying  
MN12\_08 MN21043: Length of side M of triangle - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	24.8	70.5	23.2	4.9	1.5	24.9	24.6
	2023	1124	25.7	66.1	22.9	8.6	2.4	24.2	27.3
Morocco	2019	1107	19.0	74.6	17.5	6.2	1.7	17.1	20.7
	2023	1970	24.3	69.7	22.4	5.7	2.1	23.1	25.4
South Africa (5)	2019	1686	18.1	79.8	17.7	1.2	1.3	20.4	16.0
	2023	2596	20.1	78.1	19.6	1.9	0.4	21.8	18.6
International Avg. (3)	2019	3423	20.6	75.0	19.4	4.1	1.5	20.8	20.4
	2023	5690	23.4	71.3	21.6	5.4	1.6	23.1	23.8

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

Mathematics: Measurement and Geometry / Knowing  
MN12\_09 MN21030: Same figure after a half turn - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	49.5	17.3	11.0	45.8	18.4	5.8	1.7	51.9	47.5
	2023	1124	49.5	19.4	9.0	44.5	17.1	6.9	3.2	53.2	45.8
Morocco	2019	1106	52.7	15.8	16.1	46.4	9.7	10.1	1.8	56.6	49.0
	2023	1969	48.1	21.4	13.0	42.9	11.9	8.2	2.7	48.5	47.7
South Africa (5)	2019	1686	34.5	11.7	14.0	28.9	29.2	15.0	1.3	34.7	34.3
	2023	2564	35.2	12.6	15.9	31.8	29.9	9.3	0.5	37.1	33.7
International Avg. (3)	2019	3421	45.6	14.9	13.7	40.4	19.1	10.3	1.6	47.7	43.6
	2023	5657	44.3	17.8	12.6	39.7	19.6	8.1	2.1	46.3	42.4

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

Mathematics: Measurement and Geometry / Applying  
MN12\_10 MN21032: Complete trapezoid with line of symmetry - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	55.4	40.6	50.3	7.1	2.0	60.5	50.7
	2023	1124	66.1	29.1	56.7	10.6	3.6	71.9	59.6
Morocco	2019	1107	74.6	24.1	70.6	3.3	2.0	72.5	76.5
	2023	1969	72.2	25.9	67.2	3.9	3.0	74.5	70.0
South Africa (5)	2019	1686	65.1	32.5	60.6	5.3	1.6	61.9	68.6
	2023	2597	49.5	46.7	45.8	6.9	0.6	48.8	50.4
International Avg. (3)	2019	3423	65.0	32.4	60.5	5.2	1.9	65.0	65.3
	2023	5690	62.6	33.9	56.6	7.1	2.4	65.0	60.0

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

Mathematics: Data / Knowing

MN12\_11 MN21053: Table of heights of four mountains - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	62.3	19.0	59.6	11.5	5.6	2.3	1.9	62.2	62.3
	2023	1124	68.6	16.8	63.6	8.3	4.0	3.5	3.8	65.3	72.0
Morocco	2019	1107	63.0	17.4	57.5	12.2	4.1	6.4	2.4	59.5	66.2
	2023	1965	58.7	20.7	55.2	13.8	4.3	2.9	3.1	53.8	63.3
South Africa (5)	2019	1686	55.8	22.1	53.7	15.2	5.3	1.8	1.9	53.9	57.7
	2023	2593	50.9	25.9	49.9	15.3	6.8	1.5	0.6	50.4	51.7
International Avg. (3)	2019	3422	60.3	19.5	56.9	13.0	5.0	3.5	2.1	58.5	62.1
	2023	5682	59.4	21.1	56.2	12.5	5.0	2.6	2.5	56.5	62.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Data / Applying

MN12\_12A MN21010A: Number of people planes can hold - diamond - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	65.7	61.1	12.2	8.8	10.8	5.1	2.0	68.0	63.8
	2023	1124	73.9	66.6	10.4	5.6	7.6	5.3	4.5	73.2	74.5
Morocco	2019	1107	72.9	65.8	10.7	7.2	6.6	6.0	3.8	75.4	70.6
	2023	1970	70.8	65.7	11.6	8.2	7.3	3.5	3.7	71.4	70.2
South Africa (5)	2019	1686	61.5	58.4	6.8	5.5	24.2	2.5	2.6	61.3	61.7
	2023	2582	60.5	55.5	9.0	8.4	18.7	7.4	0.9	60.0	61.4
International Avg. (3)	2019	3422	66.7	61.8	9.9	7.2	13.9	4.5	2.8	68.2	65.4
	2023	5676	68.4	62.6	10.3	7.4	11.2	5.4	3.1	68.2	68.7

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data / Reasoning

MN12\_12B MN210108: Number of people planes can hold - star - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	12.0	81.1	11.1	4.5	3.3	13.5	10.7
	2023	1124	10.9	78.2	9.6	7.2	5.1	10.4	11.3
Morocco	2019	1107	15.2	74.4	13.4	7.5	4.7	12.7	17.5
	2023	1970	1.7	91.4	1.6	2.6	4.5	1.8	1.5
South Africa (5)	2019	1686	8.0	86.4	7.6	3.0	3.0	8.7	7.3
	2023	2596	7.2	82.6	6.4	9.7	1.3	8.5	5.9
International Avg. (3)	2019	3423	11.8	80.6	10.7	5.0	3.7	11.7	11.9
	2023	5690	6.6	84.0	5.9	6.5	3.6	6.9	6.3

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

Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Data / Reasoning

MN12\_13 MN21059: Pictograph of songs on albums - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	24.4	68.8	22.2	5.5	3.5	23.1	25.6
	2023	1121	26.2	62.2	22.1	10.1	5.6	26.6	25.6
Morocco	2019	1107	24.2	67.2	21.5	5.4	5.9	22.1	26.2
	2023	1970	26.0	63.1	22.1	10.1	4.7	26.0	25.9
South Africa (5)	2019	1686	21.0	73.8	19.7	2.3	4.2	23.6	18.5
	2023	2596	21.5	75.3	20.7	2.1	1.9	22.7	20.6
International Avg. (3)	2019	3423	23.2	69.9	21.1	4.4	4.5	22.9	23.4
	2023	5687	24.6	66.9	21.6	7.4	4.1	25.1	24.0

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing  
MN13\_01 MN11017:  $47 + 25 =$  - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	59.6	39.3	58.0	1.9	0.8	61.6	57.6
	2023	1121	60.9	37.2	57.9	3.5	1.4	57.6	64.1
Morocco	2019	1110	68.0	31.5	66.9	1.3	0.3	67.9	68.1
	2023	1956	74.2	25.3	72.9	1.6	0.2	75.4	73.1
South Africa (5)	2019	1685	65.5	34.1	64.7	1.0	0.1	66.9	64.1
	2023	2616	64.3	35.5	63.8	0.3	0.3	68.2	60.5
International Avg. (3)	2019	3427	64.4	35.0	63.2	1.4	0.4	65.5	63.2
	2023	5693	66.5	32.7	64.9	1.8	0.7	67.1	65.9

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

Mathematics: Number / Knowing  
MN13\_02 MN11125: 45 divided by 3 - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	43.1	54.1	41.0	4.1	0.8	43.8	42.4
	2023	1121	43.3	50.6	38.6	9.4	1.4	41.6	45.1
Morocco	2019	1110	32.9	60.7	29.8	9.2	0.3	34.4	31.7
	2023	1956	39.4	55.8	36.3	7.6	0.3	40.3	38.5
South Africa (5)	2019	1685	28.2	70.5	27.6	1.5	0.4	29.5	26.8
	2023	2616	29.1	70.1	28.7	0.9	0.3	31.9	26.5
International Avg. (3)	2019	3427	34.7	61.8	32.8	4.9	0.5	35.9	33.6
	2023	5693	37.2	58.8	34.5	6.0	0.7	37.9	36.7

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

Mathematics: Number / Knowing

MN13\_03 MN11077: Jana writes number of days at school - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	30.3	67.6	29.4	2.1	0.8	35.5	25.4
	2023	1121	32.4	65.1	31.1	2.3	1.5	36.2	28.4
Morocco	2019	1110	10.7	86.9	10.5	2.4	0.3	11.7	10.0
	2023	1956	42.4	55.9	41.2	2.3	0.6	44.1	40.9
South Africa (5)	2019	1685	20.6	77.4	20.1	1.9	0.5	22.7	18.4
	2023	2614	24.8	73.6	24.3	1.8	0.3	30.5	19.3
International Avg. (3)	2019	3427	20.6	77.3	20.0	2.1	0.5	23.3	17.9
	2023	5691	33.2	64.8	32.2	2.2	0.8	36.9	29.5

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 / Knowing

MN13\_04A MN11047A: Choice of flowers graph - least chosen - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	68.0	13.5	7.9	65.2	9.3	3.2	0.8	74.9	61.0
	2023	1121	68.8	14.2	6.7	63.2	7.9	6.2	1.9	71.6	65.6
Morocco	2019	1110	67.3	6.5	8.2	63.6	16.2	5.1	0.4	67.9	66.9
	2023	1956	71.4	6.8	8.1	69.1	12.8	2.4	0.9	76.1	67.1
South Africa (5)	2019	1685	78.7	4.1	4.2	77.0	12.4	1.7	0.6	85.2	72.4
	2023	2613	69.0	5.9	6.9	68.0	17.7	1.2	0.3	76.5	61.7
International Avg. (3)	2019	3427	71.3	8.0	6.8	68.6	12.7	3.3	0.6	76.0	66.8
	2023	5690	69.7	8.9	7.2	66.8	12.8	3.2	1.0	74.7	64.8

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 / Knowing

MN13\_04B MN11047B: Choice of flowers graph - more often than Iris - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	63.3	9.0	14.7	11.4	60.4	3.6	0.9	71.0	55.5
	2023	1121	68.4	8.9	9.7	9.9	61.7	7.7	2.1	71.1	65.4
Morocco	2019	1110	65.1	7.6	13.7	11.2	60.8	5.9	0.8	68.9	62.0
	2023	1956	69.4	5.3	14.3	9.3	65.8	4.1	1.3	73.4	65.8
South Africa (5)	2019	1685	63.5	10.8	14.8	9.8	61.7	2.1	0.8	69.5	57.7
	2023	2611	58.4	14.0	16.9	10.0	57.3	1.5	0.4	65.0	52.1
International Avg. (3)	2019	3427	64.0	9.2	14.4	10.8	61.0	3.8	0.8	69.8	58.4
	2023	5688	65.4	9.4	13.6	9.7	61.6	4.4	1.2	69.9	61.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Reasoning

MN13\_05 MN11223: Emma buys and sells chickens - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	25.8	72.2	25.1	1.8	0.9	28.3	23.3
	2023	1124	28.1	67.4	26.3	4.2	2.1	31.5	24.6
Morocco	2019	1110	22.2	75.7	21.6	1.5	1.2	24.1	20.6
	2023	1956	26.4	71.4	25.6	1.6	1.4	29.2	23.9
South Africa (5)	2019	1685	21.8	75.6	21.1	2.5	0.8	25.1	18.5
	2023	2617	21.9	76.6	21.4	1.6	0.4	25.3	18.6
International Avg. (3)	2019	3427	23.3	74.5	22.6	1.9	1.0	25.8	20.8
	2023	5697	25.5	71.8	24.5	2.4	1.3	28.7	22.4

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

MN13\_06 MN11034: Identify the figure that is 3/4 shaded - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	32.6	35.7	29.8	19.8	5.9	7.9	0.9	34.2	31.0
	2023	1124	27.3	34.7	24.1	24.3	5.2	9.5	2.2	28.5	26.0
Morocco	2019	1110	27.9	35.8	23.8	15.1	10.4	13.7	1.3	29.6	26.6
	2023	1956	30.6	34.5	26.7	18.4	7.6	11.1	1.8	29.0	32.1
South Africa (5)	2019	1685	28.0	25.8	24.0	32.0	4.0	13.3	0.9	28.6	27.5
	2023	2591	30.0	27.4	27.3	29.3	7.0	8.6	0.4	33.6	26.3
International Avg. (3)	2019	3426	29.5	32.4	25.9	22.3	6.8	11.6	1.0	30.8	28.4
	2023	5671	29.3	32.2	26.0	24.0	6.6	9.8	1.5	30.4	28.1

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

Produced by TIMSS & PIRLS International Study Center at Boston College



Mathematics: Number / Applying

MN13\_07 MN11175: Total length of Jen's strip of paper - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	35.8	60.1	33.6	4.7	1.6	39.8	31.9
	2023	1124	40.2	50.7	34.1	12.5	2.7	39.7	40.6
Morocco	2019	1110	40.3	53.8	36.3	8.6	1.3	36.3	43.6
	2023	1956	42.9	51.8	39.0	7.0	2.1	41.6	44.1
South Africa (5)	2019	1685	35.5	62.5	34.5	1.7	1.4	38.8	32.5
	2023	2617	33.4	64.9	32.5	2.1	0.5	37.0	29.9
International Avg. (3)	2019	3427	37.2	58.8	34.8	5.0	1.4	38.3	36.0
	2023	5697	38.8	55.8	35.2	7.2	1.8	39.4	38.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Knowing  
MN13\_08 MN11262: Identify the square - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	41.1	38.9	34.4	19.4	2.0	3.7	1.6	44.4	37.7
	2023	1122	35.0	32.5	36.0	20.7	3.7	4.1	3.1	36.5	33.6
Morocco	2019	1110	59.8	54.4	24.7	9.4	2.4	7.7	1.4	61.1	58.8
	2023	1955	60.7	55.8	23.4	10.4	2.3	5.8	2.3	60.1	61.3
South Africa (5)	2019	1685	24.8	23.0	29.7	36.9	3.0	5.7	1.6	23.6	25.7
	2023	2597	27.5	25.7	27.2	35.3	5.3	5.9	0.6	26.6	28.4
International Avg. (3)	2019	3427	41.9	38.7	29.6	21.9	2.5	5.7	1.6	43.1	40.7
	2023	5674	41.1	38.0	28.9	22.1	3.8	5.2	2.0	41.1	41.1

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

Mathematics: Measurement and Geometry / Applying

MN13\_09 MN11239: Estimate the distance from B to C on a line - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	36.0	15.2	34.5	31.8	14.2	2.6	1.7	36.7	35.4
	2023	1122	35.0	15.4	32.0	30.6	13.3	5.6	3.1	38.0	32.1
Morocco	2019	1110	36.7	19.6	33.7	25.4	13.0	6.8	1.6	37.9	35.8
	2023	1955	35.8	18.5	33.6	26.5	15.4	3.7	2.3	37.2	34.5
South Africa (5)	2019	1685	31.1	16.5	29.8	34.9	14.6	2.5	1.7	30.9	31.2
	2023	2610	32.1	11.8	31.2	36.5	17.9	2.1	0.6	34.6	29.7
International Avg. (3)	2019	3426	34.6	17.1	32.7	30.7	13.9	3.9	1.7	35.2	34.1
	2023	5687	34.3	15.2	32.3	31.2	15.5	3.8	2.0	36.6	32.1

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Applying  
MN13\_10 MN11202: Distance around the triangle - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	49.0	47.6	45.8	4.5	2.0	47.0	51.0
	2023	1118	45.4	46.9	39.0	9.8	4.3	44.3	46.6
Morocco	2019	1110	41.0	54.0	37.6	6.5	2.0	38.4	43.1
	2023	1956	57.6	39.8	54.1	3.4	2.7	56.1	59.0
South Africa (5)	2019	1685	45.9	52.8	44.7	0.7	1.7	48.9	42.8
	2023	2616	45.4	53.7	44.6	1.1	0.7	47.1	43.9
International Avg. (3)	2019	3427	45.3	51.5	42.7	3.9	1.9	44.8	45.6
	2023	5690	49.5	46.8	45.9	4.8	2.6	49.2	49.8

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

Mathematics: Measurement and Geometry / Applying  
MN13\_11 MN11299: Total time Vijay spent on the bus - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	36.3	59.1	33.7	4.3	2.9	36.3	36.3
	2023	1118	46.7	45.9	40.3	6.4	7.4	42.7	51.0
Morocco	2019	1110	24.1	68.6	21.8	6.2	3.4	22.9	25.1
	2023	1955	28.8	60.7	24.5	10.7	4.1	24.9	32.1
South Africa (5)	2019	1685	38.5	54.2	33.9	9.8	2.1	39.3	37.5
	2023	2616	32.4	65.7	31.5	1.7	1.1	35.4	29.6
International Avg. (3)	2019	3427	33.0	60.6	29.8	6.8	2.8	32.8	33.0
	2023	5689	36.0	57.4	32.1	6.3	4.2	34.4	37.6

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

Mathematics: Number / Knowing  
MN14\_01 MN21049: Two factors of 20 - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	49.3	29.2	36.3	27.8	6.3	0.3	49.4	49.1
	2023	1126	52.4	22.1	35.8	26.1	15.3	0.6	52.3	52.2
Morocco	2019	1096	48.2	27.0	32.7	23.9	15.6	0.8	47.1	49.2
	2023	1956	61.0	20.6	28.7	40.2	10.0	0.6	61.0	60.9
South Africa (5)	2019	1685	52.0	25.3	42.7	29.2	2.8	0.0	54.3	49.8
	2023	2612	50.6	27.3	42.2	28.4	2.1	0.0	53.6	47.5
International Avg. (3)	2019	3411	49.8	27.1	37.2	27.0	8.3	0.4	50.3	49.4
	2023	5694	54.6	23.3	35.6	31.6	9.1	0.4	55.6	53.5

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

Mathematics: Number / Reasoning

MN14\_02 MN21050: Value of triangle when 3 + triangle = odd number - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	48.2	48.0	44.7	6.7	0.6	48.8	47.6
	2023	1126	72.5	24.2	63.6	11.3	0.9	74.8	69.9
Morocco	2019	1096	40.3	51.4	34.8	12.9	0.9	46.9	34.4
	2023	1956	47.4	45.7	41.2	12.2	1.0	47.6	47.2
South Africa (5)	2019	1685	42.7	55.4	41.3	2.8	0.5	42.8	42.6
	2023	2614	38.7	60.1	38.0	1.8	0.0	39.3	38.3
International Avg. (3)	2019	3411	43.8	51.6	40.3	7.5	0.7	46.2	41.5
	2023	5696	52.9	43.3	47.6	8.4	0.6	53.9	51.8

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

Mathematics: Number / Reasoning

MN14\_03 MN21065: Three steps starting with 5 to find answer - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	44.1	42.1	19.1	15.3	18.9	4.1	0.6	43.4	44.9
	2023	1128	49.5	46.1	15.8	15.1	16.1	5.9	1.0	49.6	49.1
Morocco	2019	1096	36.3	33.4	20.0	18.9	19.6	7.2	1.0	38.0	34.9
	2023	1956	39.2	37.1	22.2	16.2	19.3	4.1	1.1	40.8	37.8
South Africa (5)	2019	1685	47.0	44.6	16.9	16.2	17.2	4.6	0.5	50.8	43.3
	2023	2610	45.6	44.6	20.7	16.4	16.1	2.1	0.0	50.0	41.3
International Avg. (3)	2019	3409	42.5	40.0	18.7	16.8	18.5	5.3	0.7	44.1	41.0
	2023	5694	44.8	42.6	19.6	15.9	17.2	4.0	0.7	46.8	42.7

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

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Mathematics: Number / Knowing

MN14\_04 MN21014: Value for m when  $m \times 3 = 12$  - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	68.9	29.5	65.3	4.4	0.8	71.8	66.0
	2023	1128	75.8	22.0	69.0	7.9	1.2	75.6	75.9
Morocco	2019	1096	72.5	26.1	68.8	4.1	1.0	74.9	70.3
	2023	1956	78.7	20.0	73.9	4.8	1.3	80.3	77.3
South Africa (5)	2019	1685	64.4	34.7	62.9	1.9	0.6	65.2	63.6
	2023	2613	52.0	47.4	51.3	1.2	0.0	55.4	48.5
International Avg. (3)	2019	3411	68.6	30.1	65.7	3.5	0.8	70.7	66.7
	2023	5697	68.8	29.8	64.7	4.7	0.8	70.4	67.3

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 / Applying

MN14\_05 MN21019: Expression for Molly's gemstones - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	66.6	16.0	4.6	63.5	11.2	3.7	0.9	65.9	67.4
	2023	1128	68.8	17.8	4.4	63.5	6.7	6.3	1.4	67.4	70.2
Morocco	2019	1096	63.1	17.3	7.4	59.1	9.9	5.2	1.1	57.8	67.8
	2023	1956	70.5	12.9	5.5	67.5	9.8	2.6	1.7	66.9	73.7
South Africa (5)	2019	1685	54.6	23.3	7.2	51.5	12.4	5.1	0.6	53.0	56.2
	2023	2608	56.0	21.0	7.3	54.1	14.3	3.2	0.1	56.1	55.8
International Avg. (3)	2019	3410	61.4	18.8	6.4	58.0	11.2	4.7	0.9	58.9	63.8
	2023	5692	65.1	17.2	5.7	61.7	10.3	4.0	1.1	63.5	66.6

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 / Applying

MN14\_06 MN21024: Odin's rule for IN and OUT table - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	29.7	34.7	15.7	15.7	27.9	4.9	1.1	32.6	26.8
	2023	1126	34.7	30.1	17.1	12.4	31.7	6.6	2.2	33.9	35.4
Morocco	2019	1096	23.8	32.8	16.0	21.3	21.9	6.8	1.1	25.4	22.3
	2023	1956	30.8	30.4	14.4	20.2	28.9	4.1	2.1	31.5	30.2
South Africa (5)	2019	1685	32.1	23.2	23.6	18.9	31.1	2.5	0.8	31.7	32.5
	2023	2611	29.7	26.6	22.2	20.4	29.2	1.3	0.3	30.4	29.0
International Avg. (3)	2019	3411	28.5	30.2	18.5	18.6	26.9	4.7	1.0	29.9	27.2
	2023	5693	31.7	29.0	17.9	17.7	29.9	4.0	1.5	31.9	31.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Knowing  
MN14\_07 MN21035: Longest metric unit of length - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	57.0	13.3	54.3	19.8	7.8	3.7	1.1	57.3	56.8
	2023	1126	57.8	10.9	53.1	20.0	7.9	5.8	2.4	56.8	58.8
Morocco	2019	1096	35.2	15.2	32.4	33.8	10.6	6.7	1.3	34.3	36.1
	2023	1956	44.3	13.0	41.5	25.3	14.0	3.8	2.5	40.0	48.0
South Africa (5)	2019	1685	52.9	9.5	51.6	12.4	24.0	1.6	0.8	48.6	57.0
	2023	2606	58.0	7.8	56.5	12.8	20.4	2.2	0.4	61.4	54.4
International Avg. (3)	2019	3410	48.4	12.7	46.1	22.0	14.1	4.0	1.1	46.7	50.0
	2023	5688	53.3	10.5	50.4	19.3	14.1	3.9	1.7	52.7	53.7

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Knowing  
MN14\_08 MN21039: Unit in measuring volume of fish tank - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	46.8	10.6	20.4	45.4	20.6	1.8	1.2	50.1	43.7
	2023	1125	48.9	12.7	16.2	45.3	18.5	5.0	2.4	45.1	53.1
Morocco	2019	1096	53.9	9.2	19.6	50.3	14.3	5.2	1.3	50.3	57.1
	2023	1956	48.2	11.3	23.0	45.3	14.4	3.4	2.6	50.3	46.4
South Africa (5)	2019	1685	51.3	13.9	20.9	50.0	12.8	1.7	0.8	47.7	54.7
	2023	2612	51.9	14.4	19.0	50.9	13.8	1.5	0.4	51.3	52.5
International Avg. (3)	2019	3411	50.7	11.2	20.3	48.6	15.9	2.9	1.1	49.3	51.8
	2023	5693	49.7	12.8	19.4	47.2	15.6	3.3	1.8	48.9	50.7

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

Mathematics: Measurement and Geometry / Applying  
MN14\_09 MN21062: Table of number of faces of closed box - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	56.9	39.3	51.8	7.5	1.3	59.8	53.9
	2023	1124	54.7	38.1	46.1	13.1	2.8	55.2	54.3
Morocco	2019	1096	56.8	40.3	53.0	5.2	1.5	56.3	57.3
	2023	1956	60.6	35.0	53.7	7.6	3.8	62.1	59.2
South Africa (5)	2019	1685	62.0	36.8	60.1	2.1	1.0	65.1	59.0
	2023	2614	59.9	38.5	57.5	3.5	0.5	60.1	59.6
International Avg. (3)	2019	3411	58.6	38.8	55.0	4.9	1.3	60.4	56.7
	2023	5694	58.4	37.2	52.4	8.0	2.4	59.2	57.7

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

Mathematics: Measurement and Geometry / Applying  
MN14\_10 MN21057: Pair of lines that are parallel (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	18.3	71.4	16.0	10.8	1.8	16.7	19.8
	2023	1124	20.8	66.8	17.6	12.2	3.5	21.9	19.2
Morocco	2019	1096	32.3	60.9	29.0	8.0	2.0	34.6	30.2
	2023	1954	36.5	57.6	33.1	5.0	4.4	37.2	35.8
South Africa (5)	2019	1685	31.5	63.6	29.3	5.9	1.1	31.9	31.2
	2023	2615	23.5	68.1	20.9	10.2	0.7	26.4	20.5
International Avg. (3)	2019	3409	27.4	65.3	24.8	8.3	1.6	27.7	27.1
	2023	5693	26.9	64.2	23.9	9.1	2.8	28.5	25.2

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

Mathematics: Measurement and Geometry / Applying  
MN14\_10A MN21057A: Pair of lines that are parallel - a and b - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	83.9	69.8	13.4	15.0	1.8	85.5	82.3
	2023	1124	83.7	67.8	13.2	15.6	3.5	84.3	82.9
Morocco	2019	1096	77.5	62.0	18.0	18.0	2.0	80.5	74.9
	2023	1954	76.6	66.3	20.2	9.2	4.4	77.0	76.3
South Africa (5)	2019	1685	77.4	67.3	19.6	11.9	1.1	79.4	75.4
	2023	2615	73.6	60.9	21.9	16.5	0.7	73.6	73.6
International Avg. (3)	2019	3409	79.6	66.4	17.0	15.0	1.6	81.8	77.5
	2023	5693	78.0	65.0	18.4	13.7	2.8	78.3	77.6

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



Mathematics: Measurement and Geometry / Applying  
MN14\_10B MN21057B: Pair of lines that are parallel - a and c - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	83.8	13.2	68.2	16.9	1.8	84.9	82.7
	2023	1124	79.8	15.4	60.9	20.3	3.5	81.4	78.1
Morocco	2019	1096	65.2	26.9	50.3	20.9	2.0	67.8	62.8
	2023	1954	72.9	22.7	61.1	11.8	4.4	74.5	71.6
South Africa (5)	2019	1685	68.7	26.1	57.2	15.6	1.1	72.4	65.1
	2023	2615	64.5	28.4	51.5	19.4	0.7	67.3	61.7
International Avg. (3)	2019	3409	72.6	22.0	58.5	17.8	1.6	75.0	70.2
	2023	5693	72.4	22.2	57.9	17.2	2.8	74.4	70.5

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

Mathematics: Measurement and Geometry / Applying

MN14\_10C MN21057C: Pair of lines that are parallel - b and d - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	67.1	26.1	53.3	18.8	1.8	70.7	63.6
	2023	1124	73.0	20.0	54.2	22.4	3.5	76.4	69.3
Morocco	2019	1096	71.7	22.0	55.7	20.3	2.0	74.9	68.7
	2023	1954	66.7	27.3	54.5	13.8	4.4	65.6	67.5
South Africa (5)	2019	1685	63.9	29.7	52.7	16.5	1.1	64.7	63.2
	2023	2615	60.1	31.4	47.2	20.7	0.7	62.2	57.9
International Avg. (3)	2019	3409	67.6	25.9	53.9	18.5	1.6	70.1	65.2
	2023	5693	66.6	26.2	52.0	19.0	2.8	68.1	64.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Measurement and Geometry / Applying

MN14\_10D MN21057D: Pair of lines that are parallel - d and e - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	40.8	33.4	48.4	16.4	1.8	35.5	46.2
	2023	1124	42.8	32.5	43.4	20.7	3.5	43.9	41.2
Morocco	2019	1096	65.8	50.9	26.4	20.7	2.0	65.9	65.8
	2023	1954	65.7	54.4	28.4	12.9	4.4	66.7	64.9
South Africa (5)	2019	1685	62.5	51.9	31.2	15.7	1.1	62.9	62.0
	2023	2615	62.0	48.9	30.0	20.5	0.7	62.1	62.0
International Avg. (3)	2019	3409	56.4	45.4	35.3	17.6	1.6	54.8	58.0
	2023	5693	56.8	45.2	33.9	18.0	2.8	57.6	56.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data / Knowing

MN14\_11 MN21063: Time Anika's shop has the most customers - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	63.2	13.9	60.0	9.3	11.8	3.0	2.0	67.9	58.6
	2023	1118	65.2	9.4	59.9	9.3	13.2	3.5	4.7	67.6	62.5
Morocco	2019	1096	53.2	9.2	48.4	14.4	18.9	6.6	2.5	55.0	51.7
	2023	1956	58.3	7.5	53.9	13.8	17.2	2.3	5.2	61.4	55.6
South Africa (5)	2019	1685	56.9	13.7	54.8	15.7	12.2	2.0	1.6	58.8	55.0
	2023	2605	51.4	10.0	50.2	20.3	17.2	1.6	0.8	55.8	47.1
International Avg. (3)	2019	3411	57.8	12.3	54.4	13.1	14.3	3.9	2.0	60.6	55.1
	2023	5679	58.3	9.0	54.7	14.5	15.9	2.5	3.6	61.6	55.1

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 / Reasoning

MN14\_12 MN21005: Bar graph of fish seen in a lake - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	39.2	53.6	34.6	9.6	2.2	42.4	36.0
	2023	1118	42.3	46.1	33.7	14.9	5.3	41.6	42.6
Morocco	2019	1096	27.5	60.3	22.9	13.9	2.9	27.8	27.2
	2023	1956	26.9	61.2	22.5	10.8	5.5	31.0	23.2
South Africa (5)	2019	1685	45.2	51.9	42.8	3.2	2.1	47.1	43.2
	2023	2614	27.8	68.8	26.5	3.7	1.1	31.7	23.8
International Avg. (3)	2019	3411	37.3	55.3	33.4	8.9	2.4	39.1	35.5
	2023	5688	32.3	58.7	27.6	9.8	4.0	34.7	29.9

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 / Knowing  
MN14\_13A MN21012A: Heights of zoo animals - shortest and tallest - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	49.6	47.5	46.7	3.3	2.6	50.8	48.3
	2023	1124	74.3	22.2	64.3	6.8	6.7	71.7	76.9
Morocco	2019	1096	67.6	29.5	61.5	3.8	5.2	69.4	66.0
	2023	1954	57.5	38.3	51.9	3.1	6.7	58.1	57.1
South Africa (5)	2019	1685	44.0	54.1	42.5	1.1	2.3	47.9	40.2
	2023	2614	40.0	57.8	38.6	2.2	1.4	47.2	32.7
International Avg. (3)	2019	3411	53.7	43.7	50.2	2.7	3.4	56.1	51.5
	2023	5692	57.3	39.5	51.6	4.0	4.9	59.0	55.6

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

Mathematics: Data / Applying

MN14\_13B MN21012B: Heights of zoo animals - twice Zoya's height - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	35.8	21.9	32.9	24.9	12.2	4.4	3.7	33.5	38.1
	2023	1125	39.6	21.4	34.7	21.8	9.7	4.3	8.2	38.1	41.1
Morocco	2019	1096	30.6	18.5	26.0	29.0	11.4	8.5	6.6	27.0	33.8
	2023	1953	33.2	22.9	28.9	21.8	13.4	5.1	7.7	31.4	34.7
South Africa (5)	2019	1685	31.7	24.3	29.8	30.5	9.5	3.0	2.9	35.1	28.4
	2023	2598	37.4	24.9	35.9	25.5	9.7	2.4	1.6	38.2	36.5
International Avg. (3)	2019	3409	32.7	21.6	29.6	28.1	11.0	5.3	4.4	31.9	33.5
	2023	5676	36.7	23.1	33.2	23.0	11.0	4.0	5.8	35.9	37.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Applying  
MP08\_01 MP71018: Seeds left over - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	25.2	36.8	19.9	24.1	14.9	3.7	0.6	23.1	27.2
	2023	1101	25.4	35.8	20.5	24.0	14.3	4.3	1.2	22.7	28.0
Morocco	2019	1099	32.0	33.4	20.7	31.3	12.2	1.8	0.6	33.1	31.0
	2023	1919	30.8	31.1	20.2	29.7	15.4	2.3	1.2	29.3	32.3
South Africa (5)	2019	1703	27.5	38.8	15.8	27.0	16.5	1.7	0.3	28.1	26.9
	2023	2589	28.7	38.4	17.5	28.0	13.7	1.9	0.5	31.1	26.5
International Avg. (3)	2019	3436	28.2	36.3	18.8	27.4	14.5	2.4	0.5	28.1	28.4
	2023	5609	28.3	35.1	19.4	27.2	14.5	2.8	1.0	27.7	28.9

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



Mathematics: Number / Applying

MP08\_02 MP71009: Number added to 73 with sum of 1068 - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	14.4	77.7	13.1	8.4	0.8	12.8	16.0
	2023	1100	20.6	64.4	16.7	17.5	1.5	15.8	25.4
Morocco	2019	1099	25.9	61.4	21.5	16.3	0.9	25.6	26.2
	2023	1952	22.1	65.2	18.5	14.5	1.7	19.1	25.2
South Africa (5)	2019	1703	6.5	89.9	6.3	3.4	0.4	7.3	5.8
	2023	2587	6.4	89.0	6.1	4.3	0.6	7.9	4.9
International Avg. (3)	2019	3437	15.6	76.3	13.6	9.4	0.7	15.2	16.0
	2023	5639	16.4	72.9	13.8	12.1	1.3	14.3	18.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Applying

MP08\_03 MP71037: Make the number sentence true -  $A \times B = 13 - C$  - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	27.4	66.2	25.0	8.0	0.8	30.6	24.4
	2023	1100	28.5	62.6	25.0	10.4	2.0	29.6	27.4
Morocco	2019	1099	36.9	54.0	31.7	12.3	2.0	38.2	35.8
	2023	1952	34.7	58.4	31.1	8.3	2.2	32.3	37.3
South Africa (5)	2019	1703	13.9	82.5	13.3	3.8	0.4	13.8	14.1
	2023	2593	16.7	80.4	16.2	2.5	1.0	17.0	16.6
International Avg. (3)	2019	3437	26.1	67.6	23.3	8.0	1.1	27.5	24.8
	2023	5645	26.7	67.1	24.1	7.1	1.7	26.3	27.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Applying

MP08\_04 MP71051: Amount of time practicing piano - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	2.6	92.2	2.5	4.2	1.1	1.0	4.2
	2023	1099	5.0	86.6	4.6	6.5	2.2	3.6	6.6
Morocco	2019	1099	3.6	90.3	3.4	4.1	2.3	3.6	3.6
	2023	1952	6.8	85.2	6.2	6.2	2.4	6.2	7.4
South Africa (5)	2019	1703	5.6	92.5	5.5	1.6	0.5	5.2	6.1
	2023	2592	7.4	89.6	7.2	2.2	1.1	8.1	6.8
International Avg. (3)	2019	3437	3.9	91.6	3.8	3.3	1.3	3.3	4.6
	2023	5643	6.4	87.1	6.0	5.0	1.9	6.0	6.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Knowing

MP08\_05 MP71064: Number equal to 8 tens and 2 tenths - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	37.0	22.5	35.0	26.2	11.1	4.0	1.2	34.9	38.9
	2023	1099	35.8	19.6	32.7	27.0	12.0	6.2	2.6	35.8	35.9
Morocco	2019	1099	35.6	15.6	33.7	39.7	5.8	2.7	2.5	35.0	36.2
	2023	1907	32.6	13.4	30.8	40.9	9.3	3.0	2.6	32.2	33.0
South Africa (5)	2019	1703	24.5	37.3	23.6	28.1	7.4	2.8	0.8	24.0	24.9
	2023	2587	27.6	38.8	26.7	24.1	7.1	2.0	1.2	26.3	28.8
International Avg. (3)	2019	3437	32.3	25.1	30.8	31.3	8.1	3.2	1.5	31.3	33.3
	2023	5593	32.0	23.9	30.1	30.6	9.5	3.7	2.1	31.5	32.6

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Knowing  
MP08\_06 MP71169: Water drank from water bottle - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	6.8	89.0	6.5	3.1	1.4	3.7	9.6
	2023	1097	10.0	81.9	9.1	6.0	3.0	6.0	14.3
Morocco	2019	1099	10.0	82.9	9.2	5.2	2.8	9.1	10.9
	2023	1952	11.1	82.8	10.3	4.0	2.9	8.8	13.3
South Africa (5)	2019	1703	4.5	93.4	4.4	1.2	1.0	3.3	5.8
	2023	2592	5.7	92.0	5.6	1.1	1.3	4.6	6.9
International Avg. (3)	2019	3437	7.1	88.4	6.7	3.1	1.7	5.4	8.8
	2023	5641	8.9	85.6	8.3	3.7	2.4	6.5	11.5

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

Mathematics: Measurement and Geometry / Reasoning

MP08\_07 MP71083: Movie that Terry is available to see - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	633	32.1	21.7	23.7	28.5	14.9	9.5	1.7	28.9	35.0
	2023	1101	31.5	23.2	23.6	27.4	12.6	9.7	3.5	29.9	33.3
Morocco	2019	1099	36.4	15.1	23.0	30.8	15.7	11.9	3.5	35.9	37.0
	2023	1863	35.3	17.2	24.1	31.6	16.6	6.6	3.9	31.5	39.3
South Africa (5)	2019	1703	32.3	21.1	26.9	29.4	13.4	7.8	1.4	31.2	33.4
	2023	2569	31.7	18.4	25.6	29.3	19.2	5.8	1.8	30.8	32.7
International Avg. (3)	2019	3435	33.6	19.3	24.5	29.6	14.7	9.7	2.2	32.0	35.1
	2023	5533	32.8	19.6	24.4	29.4	16.1	7.4	3.0	30.7	35.1

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Measurement and Geometry / Reasoning

MP08\_09 MP71184: Length of sides of 6-sided figure - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	634	25.0	19.9	23.0	25.5	23.6	5.4	2.5	22.7	27.1
	2023	1102	32.8	16.8	28.3	23.5	17.6	8.9	4.8	33.2	32.6
Morocco	2019	1099	34.7	14.6	30.6	20.7	22.2	7.5	4.4	34.0	35.4
	2023	1908	30.8	15.2	28.0	23.3	24.4	4.0	5.1	31.4	30.3
South Africa (5)	2019	1703	21.7	16.8	20.3	28.5	27.7	4.2	2.5	21.1	22.4
	2023	2581	28.1	19.9	26.7	22.9	25.3	3.1	2.2	24.4	31.8
International Avg. (3)	2019	3436	27.2	17.1	24.6	24.9	24.5	5.7	3.1	25.9	28.3
	2023	5591	30.6	17.3	27.7	23.2	22.4	5.3	4.0	29.6	31.6

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 / Reasoning

MP08\_10 MP71141: Questions about soccer teams (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	14.2	56.2	9.3	31.4	3.1	10.8	17.6
	2023	1103	19.0	51.1	12.0	31.2	5.8	16.1	22.1
Morocco	2019	1098	19.2	65.3	15.5	13.4	5.8	19.1	19.3
	2023	1570	24.8	62.1	20.4	9.9	7.6	22.9	26.7
South Africa (5)	2019	1703	13.7	59.7	9.5	27.4	3.3	13.2	14.3
	2023	2593	13.1	63.8	9.6	24.1	2.5	13.5	12.7
International Avg. (3)	2019	3431	15.7	60.4	11.5	24.1	4.1	14.4	17.1
	2023	5266	18.9	59.0	14.0	21.7	5.3	17.5	20.5

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



Mathematics: Data / Reasoning

MP08\_10A MP71141A: Questions about soccer teams - Lions won - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	633	86.8	54.9	8.4	33.6	3.1	86.1	87.4
	2023	1103	90.3	54.7	5.9	33.6	5.8	87.4	93.3
Morocco	2019	1098	82.4	62.8	13.4	17.9	5.8	81.5	83.2
	2023	1670	85.6	70.0	11.8	11.2	7.1	85.5	85.7
South Africa (5)	2019	1703	85.0	55.5	9.8	31.4	3.3	85.2	84.8
	2023	2593	82.8	57.9	12.0	27.6	2.5	86.1	79.5
International Avg. (3)	2019	3434	84.7	57.7	10.5	27.7	4.1	84.2	85.2
	2023	5366	86.2	60.9	9.9	24.1	5.1	86.3	86.1

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 / Reasoning

MP08\_10B MP71141B: Questions about soccer teams - won first two games - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	56.4	25.6	33.1	38.2	3.1	54.8	58.0
	2023	1103	58.7	22.6	32.2	39.4	5.8	56.0	61.9
Morocco	2019	1099	58.7	29.7	42.2	22.3	5.8	59.0	58.4
	2023	1643	58.5	32.6	45.9	14.3	7.2	57.9	59.1
South Africa (5)	2019	1703	52.9	29.3	32.9	34.4	3.3	52.9	52.8
	2023	2593	53.1	32.0	36.2	29.4	2.5	53.7	52.4
International Avg. (3)	2019	3433	56.0	28.2	36.1	31.6	4.1	55.6	56.4
	2023	5339	56.8	29.1	38.1	27.7	5.1	55.9	57.8

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 / Reasoning

MP08\_10C MP71141C: Questions about soccer teams - Cheetahs and Panthers - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	35.7	37.2	20.6	39.1	3.1	33.5	37.9
	2023	1103	41.7	30.5	21.9	41.8	5.8	40.0	43.2
Morocco	2019	1099	43.2	40.4	30.7	23.2	5.8	42.8	43.6
	2023	1634	49.2	39.8	38.5	14.5	7.2	45.8	52.7
South Africa (5)	2019	1703	37.8	38.2	23.3	35.2	3.3	34.8	41.0
	2023	2593	36.7	42.9	24.9	29.7	2.5	34.9	38.5
International Avg. (3)	2019	3433	38.9	38.6	24.9	32.5	4.1	37.0	40.8
	2023	5330	42.5	37.7	28.4	28.7	5.2	40.2	44.8

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

Mathematics: Data / Reasoning

MP08\_10D MP71141D: Questions about soccer teams - won more than lost - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	632	67.7	38.9	18.5	39.6	3.1	64.0	71.6
	2023	1103	74.9	39.5	13.2	41.5	5.8	73.0	76.7
Morocco	2019	1099	63.4	44.8	25.8	23.5	5.8	61.8	65.0
	2023	1619	65.8	51.1	26.6	15.0	7.3	67.2	64.4
South Africa (5)	2019	1703	69.2	41.7	18.6	36.4	3.3	71.3	67.1
	2023	2593	66.8	44.3	22.1	31.1	2.5	69.7	64.2
International Avg. (3)	2019	3434	66.8	41.8	21.0	33.2	4.1	65.7	67.9
	2023	5315	69.2	45.0	20.6	29.2	5.2	69.9	68.5

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 / Applying

MP08\_11 MP71194: Graph of weather last month - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	54.4	41.2	49.1	5.4	4.2	57.9	51.1
	2023	1103	56.9	35.8	47.4	8.4	8.4	57.9	56.2
Morocco	2019	1099	59.1	34.1	49.2	10.0	6.7	62.3	56.0
	2023	1952	69.9	25.6	59.6	6.9	7.8	70.6	69.3
South Africa (5)	2019	1703	66.5	30.9	61.4	2.2	5.5	68.9	64.2
	2023	2592	57.7	39.8	54.3	2.1	3.8	64.5	51.0
International Avg. (3)	2019	3437	60.0	35.4	53.3	5.9	5.5	63.0	57.1
	2023	5647	61.5	33.7	53.8	5.8	6.7	64.3	58.8

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 / Applying  
MP08\_12 MP71193: Birdhouses (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	19.9	66.6	11.9	12.1	4.4	5.1	18.4	21.3
	2023	1103	22.1	58.6	9.1	13.4	9.1	9.8	21.1	23.2
Morocco	2019	1099	18.2	62.2	10.3	9.8	9.5	8.2	20.1	16.4
	2023	1952	22.2	58.5	9.6	13.3	9.2	9.5	20.8	23.7
South Africa (5)	2019	1703	20.6	66.0	13.4	12.2	2.6	5.8	21.8	19.4
	2023	2580	19.3	68.2	12.7	11.5	3.3	4.2	22.3	16.6
International Avg. (3)	2019	3437	19.6	64.9	11.9	11.4	5.5	6.4	20.1	19.1
	2023	5635	21.2	61.8	10.5	12.7	7.2	7.8	21.4	21.1

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

Mathematics: Data / Applying

MP08\_12A MP71193A: Birdhouses - number each symbol represents - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	18.1	72.7	16.1	6.1	5.1	15.3	20.7
	2023	1103	21.8	62.8	17.5	10.0	9.8	19.7	23.9
Morocco	2019	1099	17.9	65.3	14.2	12.4	8.2	20.8	15.2
	2023	1952	20.3	63.2	16.1	11.1	9.5	17.9	22.9
South Africa (5)	2019	1703	19.0	74.1	17.4	2.7	5.8	21.0	17.0
	2023	2589	17.2	76.3	15.9	3.6	4.2	19.5	15.2
International Avg. (3)	2019	3437	18.3	70.7	15.9	7.0	6.4	19.1	17.6
	2023	5644	19.8	67.4	16.5	8.2	7.8	19.0	20.7

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Data / Applying  
MP08\_12B MP71193B: Birdhouses - pictograph for Type C - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	22.8	67.7	20.0	7.3	5.1	22.0	23.5
	2023	1103	23.2	60.9	18.4	10.9	9.8	23.1	23.3
Morocco	2019	1099	19.9	63.1	15.7	13.1	8.2	21.1	18.9
	2023	1952	25.3	59.1	20.0	11.4	9.5	25.0	25.6
South Africa (5)	2019	1703	22.3	70.9	20.4	2.9	5.8	22.7	21.9
	2023	2584	21.5	72.2	19.8	3.7	4.2	25.2	18.1
International Avg. (3)	2019	3437	21.7	67.2	18.7	7.8	6.4	21.9	21.5
	2023	5639	23.3	64.1	19.4	8.7	7.8	24.5	22.3

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



Mathematics: Data / Applying  
MP08\_13 MP71192: Graph of monthly rainfall - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	7.5	68.7	4.1	3.7	15.9	7.5	8.4	6.7
	2023	1102	17.6	52.2	2.3	10.3	22.0	13.2	16.3	19.1
Morocco	2019	1099	21.3	50.6	2.8	12.6	21.6	12.4	22.4	20.2
	2023	1952	27.6	51.0	4.9	17.9	13.3	12.9	26.5	28.6
South Africa (5)	2019	1703	8.4	67.3	2.3	5.1	17.9	7.5	8.7	8.0
	2023	2594	3.8	69.7	2.1	1.7	20.3	6.2	3.6	4.0
International Avg. (3)	2019	3437	12.4	62.2	3.1	7.1	18.5	9.1	13.2	11.6
	2023	5648	16.3	57.6	3.1	10.0	18.5	10.8	15.5	17.3

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

Mathematics: Number / Knowing

MP13\_01 MP61240: Place value expansion (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	15.0	77.5	13.7	8.4	0.4	11.9	18.0
	2023	1109	15.8	75.2	14.1	9.7	0.9	9.3	22.8
Morocco	2019	1101	13.8	82.4	13.2	4.2	0.2	9.7	18.1
	2023	1959	17.8	78.3	17.0	4.1	0.6	16.4	19.1
South Africa (5)	2019	1693	12.2	82.9	11.5	5.4	0.2	11.6	12.8
	2023	2606	11.5	78.0	10.2	11.8	0.0	11.2	12.0
International Avg. (3)	2019	3424	13.7	80.9	12.8	6.0	0.3	11.1	16.3
	2023	5674	15.0	77.2	13.8	8.5	0.5	12.3	18.0

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

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Mathematics: Number / Knowing

MP13\_01A MP61240A: Place value expansion - 3h + 58o - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	67.7	60.8	29.1	9.7	0.4	64.8	70.5
	2023	1109	74.1	64.4	22.5	12.2	0.9	69.4	79.3
Morocco	2019	1102	72.1	63.2	24.4	12.1	0.2	68.5	75.9
	2023	1959	73.1	67.2	24.7	7.5	0.6	69.4	76.5
South Africa (5)	2019	1693	60.3	54.8	36.1	8.9	0.2	58.2	62.3
	2023	2606	57.8	49.0	35.7	15.3	0.0	55.1	60.8
International Avg. (3)	2019	3425	66.7	59.6	29.9	10.2	0.3	63.8	69.6
	2023	5674	68.4	60.2	27.6	11.7	0.5	64.7	72.2

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

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Mathematics: Number / Knowing

MP13\_01B MP61240B: Place value expansion -  $3h + 4t + 18o$  - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	33.3	29.3	58.6	11.6	0.4	31.7	35.0
	2023	1109	30.3	25.5	58.6	15.0	0.9	25.5	35.7
Morocco	2019	1102	30.9	27.1	60.6	12.1	0.2	27.1	34.6
	2023	1959	33.2	30.5	61.3	7.5	0.6	32.2	34.1
South Africa (5)	2019	1693	30.9	28.1	62.9	8.9	0.2	28.7	32.8
	2023	2606	28.8	23.9	59.0	17.1	0.0	26.5	31.3
International Avg. (3)	2019	3425	31.7	28.1	60.7	10.8	0.3	29.2	34.1
	2023	5674	30.8	26.6	59.6	13.2	0.5	28.1	33.7

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

Mathematics: Number / Knowing

MP13\_01C MP61240C: Place value expansion -  $3h + 15t + 8o$  - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	65.0	30.3	56.3	13.0	0.4	59.0	70.9
	2023	1109	69.4	25.5	57.9	15.7	0.9	62.0	77.7
Morocco	2019	1101	75.7	21.4	66.7	11.7	0.2	76.7	74.8
	2023	1959	73.3	24.0	65.9	9.5	0.6	72.9	73.7
South Africa (5)	2019	1693	68.7	28.0	61.6	10.2	0.2	70.7	66.6
	2023	2606	69.2	25.6	57.4	17.0	0.0	71.4	67.1
International Avg. (3)	2019	3424	69.8	26.6	61.5	11.6	0.3	68.8	70.8
	2023	5674	70.6	25.0	60.4	14.1	0.5	68.7	72.8

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

Mathematics: Number / Applying

MP13\_02 MP61254: Complete the table for Mia's input-output game - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	35.7	57.9	32.1	9.6	0.4	40.2	31.2
	2023	1109	35.8	54.1	30.2	14.2	1.5	37.2	34.4
Morocco	2019	1102	32.0	61.1	28.7	9.4	0.8	36.7	27.0
	2023	1959	38.0	56.5	34.7	7.9	1.0	40.4	36.1
South Africa (5)	2019	1693	21.0	75.3	20.0	4.3	0.3	24.0	18.2
	2023	2604	22.1	76.0	21.6	2.5	0.0	26.4	18.1
International Avg. (3)	2019	3426	29.6	64.8	27.0	7.8	0.5	33.7	25.5
	2023	5672	32.0	62.2	28.8	8.2	0.8	34.6	29.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Mathematics: Number / Reasoning

MP13\_03 MP61244: Choose true statement about 2 and 3 digit numbers - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	46.7	19.2	21.2	43.8	9.6	5.8	0.4	44.3	48.9
	2023	1104	44.4	18.9	20.2	40.4	11.4	7.1	2.0	41.4	47.4
Morocco	2019	1101	49.3	12.8	19.4	44.4	13.5	9.0	0.9	51.4	47.1
	2023	1959	51.1	14.5	17.4	46.6	12.8	7.5	1.3	49.8	52.2
South Africa (5)	2019	1693	35.0	19.2	24.0	32.9	17.7	5.6	0.6	32.8	37.2
	2023	2592	34.1	19.2	23.9	33.1	20.7	3.0	0.0	34.8	33.7
International Avg. (3)	2019	3425	43.7	17.1	21.5	40.4	13.6	6.8	0.6	42.8	44.4
	2023	5655	43.2	17.5	20.5	40.0	15.0	5.9	1.1	42.0	44.4

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

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Mathematics: Number / Knowing

MP13\_04 MP61041: Identify number between 1.4 and 1.78 - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	33.8	15.8	31.3	21.2	24.4	6.7	0.7	33.5	34.1
	2023	1105	38.5	13.2	35.1	19.6	23.3	6.5	2.3	32.9	44.2
Morocco	2019	1101	32.8	16.4	28.4	20.8	20.9	12.4	1.1	31.5	34.2
	2023	1959	36.8	14.9	33.7	19.5	23.4	6.8	1.7	34.9	38.4
South Africa (5)	2019	1693	28.0	17.8	26.5	16.3	33.9	4.9	0.6	26.7	29.3
	2023	2593	26.4	19.8	25.8	16.5	35.7	2.0	0.2	25.9	27.0
International Avg. (3)	2019	3425	31.5	16.7	28.7	19.4	26.4	8.0	0.8	30.5	32.5
	2023	5657	33.9	16.0	31.5	18.5	27.5	5.1	1.4	31.2	36.5

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

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Mathematics: Number / Knowing

MP13\_05 MP61173: Find the value of w in number sentence - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	28.7	64.0	25.7	9.6	0.7	27.5	29.8
	2023	1105	35.2	53.8	29.3	14.6	2.3	33.2	37.3
Morocco	2019	1102	33.1	53.8	26.6	18.0	1.6	28.9	37.5
	2023	1959	35.4	56.6	31.0	10.7	1.7	33.8	36.7
South Africa (5)	2019	1693	38.6	59.6	37.4	2.4	0.6	40.9	36.2
	2023	2604	34.2	64.9	33.7	1.1	0.3	37.0	31.5
International Avg. (3)	2019	3426	33.5	59.1	29.9	10.0	1.0	32.4	34.5
	2023	5668	34.9	58.5	31.3	8.8	1.4	34.6	35.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Mathematics: Number / Applying

MP13\_06 MP61252: Expression to find number of books Luke read - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	18.0	24.5	14.0	39.4	17.1	4.4	0.7	18.8	17.2
	2023	1105	15.6	25.7	13.0	39.6	14.5	4.3	3.0	15.9	15.4
Morocco	2019	1101	20.5	21.3	17.1	35.0	18.9	5.1	2.6	19.3	21.6
	2023	1959	25.3	22.8	14.1	33.1	23.7	3.5	2.8	27.6	23.3
South Africa (5)	2019	1693	15.6	30.2	14.6	34.9	14.8	4.7	0.8	15.4	15.7
	2023	2591	20.2	25.6	13.3	38.4	19.6	2.9	0.2	20.8	19.9
International Avg. (3)	2019	3425	18.0	25.3	15.2	36.4	16.9	4.7	1.4	17.9	18.2
	2023	5655	20.4	24.7	13.5	37.0	19.3	3.6	2.0	21.4	19.5

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

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Mathematics: Number / Applying

MP13\_07 MP61261: Find the next number for Ian's number pattern - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	13.5	77.4	12.1	9.8	0.7	13.7	13.3
	2023	1105	19.0	67.9	16.0	13.0	3.1	17.6	20.4
Morocco	2019	1102	12.0	70.6	9.6	17.2	2.6	10.0	14.0
	2023	1959	18.3	69.9	15.7	11.4	3.0	19.2	17.6
South Africa (5)	2019	1693	14.6	81.6	13.9	3.3	1.2	17.0	12.3
	2023	2602	15.9	81.9	15.4	2.3	0.3	18.3	13.6
International Avg. (3)	2019	3426	13.3	76.5	11.9	10.1	1.5	13.6	13.2
	2023	5666	17.7	73.3	15.7	8.9	2.1	18.4	17.2

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

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Mathematics: Measurement and Geometry / Applying  
MP13\_08 MP61224: Draw angle MNP larger than a right angle - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	25.2	62.5	21.0	15.1	1.4	23.7	26.7
	2023	1105	25.2	56.7	19.1	20.4	3.8	24.3	26.2
Morocco	2019	1102	12.9	79.0	11.7	6.1	3.2	14.0	11.7
	2023	1959	24.0	68.4	21.6	5.8	4.2	26.9	21.6
South Africa (5)	2019	1693	9.1	82.0	8.2	7.8	2.0	10.2	8.2
	2023	2603	12.9	80.2	11.9	7.3	0.5	13.8	12.2
International Avg. (3)	2019	3426	15.7	74.5	13.6	9.7	2.2	15.9	15.5
	2023	5667	20.7	68.4	17.5	11.2	2.8	21.7	20.0

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

Mathematics: Measurement and Geometry / Reasoning  
MP13\_09 MP61077: View of building from above - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	23.2	21.2	12.0	53.4	4.5	7.4	1.5	25.2	21.4
	2023	1105	25.5	22.7	14.0	48.8	3.8	6.7	4.1	21.8	29.2
Morocco	2019	1101	17.4	14.7	19.0	44.0	6.7	12.2	3.5	14.3	20.5
	2023	1959	20.2	17.3	17.5	46.3	4.5	9.9	4.4	19.0	21.2
South Africa (5)	2019	1693	30.6	28.3	20.2	37.9	6.3	5.1	2.3	29.3	31.9
	2023	2595	27.4	26.0	22.0	41.0	6.0	4.5	0.6	26.8	27.9
International Avg. (3)	2019	3425	23.7	21.4	17.0	45.1	5.8	8.2	2.4	22.9	24.6
	2023	5659	24.4	22.0	17.8	45.3	4.8	7.0	3.0	22.6	26.1

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

Mathematics: Data / Knowing

MP13\_10A MP61069A: Time for Ahmed to read 10 pages - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	43.9	51.2	40.1	6.6	2.1	47.7	40.2
	2023	1109	44.2	47.2	37.4	10.8	4.6	43.8	44.7
Morocco	2019	1102	42.2	51.0	37.2	7.7	4.0	39.9	44.5
	2023	1959	50.5	43.8	44.6	6.5	5.1	53.1	48.2
South Africa (5)	2019	1693	44.2	53.1	42.1	2.3	2.5	47.4	41.4
	2023	2604	39.2	59.6	38.5	1.0	0.9	41.9	36.4
International Avg. (3)	2019	3426	43.4	51.8	39.8	5.5	2.9	45.0	42.0
	2023	5672	44.6	50.2	40.2	6.1	3.5	46.3	43.1

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

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Mathematics: Data / Applying

MP13\_10B MP610698: Number of pages Ahmed reads in 60 minutes - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	26.3	67.4	24.1	3.9	4.5	28.4	24.3
	2023	1109	26.1	61.2	21.7	6.8	10.3	24.9	27.3
Morocco	2019	1102	29.8	60.8	25.9	5.6	7.8	27.2	32.6
	2023	1959	36.9	55.6	32.5	3.4	8.5	36.5	37.2
South Africa (5)	2019	1693	29.5	67.2	28.2	0.5	4.1	29.7	29.5
	2023	2604	28.2	70.3	27.7	0.3	1.6	28.5	28.0
International Avg. (3)	2019	3426	28.6	65.2	26.0	3.3	5.5	28.4	28.8
	2023	5672	30.4	62.4	27.3	3.5	6.8	30.0	30.8

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

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