

Item: A01 KEY: B
 In which figure are one-half of the dots black? (Fractions and Proportionality)
 Difficulty: 411

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	7.8	76.6	8.6	4.4	2.7	76.6	0.0	0.3	2.4	75.7	77.5
Austria	2525	1.3	90.9	3.7	2.4	1.7	90.9	0.3	0.1	1.4	91.4	90.7
Canada	7579	9.6	74.1	11.0	3.4	2.0	74.1	0.2	0.2	1.5	71.9	76.2
Cyprus	3306	11.8	37.4	41.2	1.8	7.9	37.4	0.5	0.2	7.2	35.5	39.3
Czech Republic	3252	1.1	90.2	4.3	1.8	2.6	90.2	0.9	0.2	1.5	90.0	90.4
England	3037	9.6	70.8	11.4	4.2	4.0	70.8	0.0	0.3	3.7	69.2	72.4
Greece	2955	2.4	85.2	4.0	1.9	6.6	85.2	1.5	0.3	4.8	85.2	85.3
Hong Kong	4389	1.0	84.5	3.1	2.0	9.4	84.5	0.2	0.0	9.3	83.5	85.4
Hungary	3038	1.4	88.7	3.7	2.6	3.6	88.7	0.0	0.6	2.9	89.6	88.7
Iceland	1694	1.7	86.4	5.6	2.0	4.3	86.4	0.1	0.8	3.3	87.6	85.1
Iran, Islamic Rep.	3360	12.9	54.1	11.8	4.0	17.3	54.1	4.0	0.3	13.0	50.0	59.0
Ireland	2885	5.7	82.8	6.7	2.7	2.1	82.8	0.6	0.1	1.4	82.8	82.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	2.1	84.4	6.0	6.0	1.5	84.4	0.3	0.1	1.0	84.6	84.2
Korea	2777	16.4	27.1	55.4	0.9	0.2	27.1	0.0	0.0	0.2	23.9	30.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	2.4	80.5	10.0	3.3	3.9	80.5	0.0	0.0	3.9	80.8	80.2
Netherlands	2789	0.4	91.4	5.2	2.0	1.0	91.4	1.0	0.0	0.0	90.4	92.3
New Zealand	2499	9.3	70.0	11.3	5.7	3.7	70.0	0.0	0.4	3.3	70.3	69.7
Norway	2210	1.9	83.1	5.9	2.5	6.6	83.1	0.2	1.2	5.2	83.8	82.4
Portugal	2648	4.3	71.0	8.4	4.7	11.6	71.0	0.0	2.3	9.3	69.3	72.6
Scotland	3129	11.7	66.9	13.4	4.9	3.0	66.9	0.2	0.1	2.7	66.3	67.5
Singapore	7030	4.3	78.5	9.8	5.5	1.8	78.5	0.0	0.0	1.8	77.0	79.9
Slovenia	2521	1.5	88.1	4.6	4.2	1.5	88.1	0.3	0.1	1.1	86.8	89.4
Thailand	2870	19.3	66.0	6.8	5.1	2.9	66.0	0.0	0.0	2.9	66.1	66.0
United States	3811	14.8	65.7	12.8	4.0	2.7	65.7	0.0	0.1	2.6	64.1	67.2
INTERNATIONAL AVG	.	6.4	74.8	11.0	3.4	4.4	74.8	0.4	0.3	3.6	74.0	75.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: A02 KEY: D
 Determine total number from ratio and one number. (Fractions and Proportionality)
 Difficulty: 557

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	3.6	34.9	5.2	55.0	1.3	55.0	0.0	0.3	1.0	55.9	54.2
Austria	2525	1.1	41.4	1.9	54.8	0.8	54.8	0.2	0.1	0.5	54.6	54.9
Canada	7579	5.2	37.1	8.4	47.8	1.5	47.8	0.3	0.2	1.0	47.3	47.8
Cyprus	3306	3.3	44.3	4.8	44.7	2.9	44.7	0.6	0.2	2.1	45.9	43.4
Czech Republic	3252	1.2	27.7	2.0	67.1	2.1	67.1	0.7	0.3	1.1	64.4	69.8
England	3037	4.9	35.4	7.2	50.6	2.0	50.6	0.0	0.5	1.5	50.5	50.6
Greece	2955	3.9	31.2	7.9	51.0	5.9	51.0	0.6	0.5	4.8	49.2	52.8
Hong Kong	4390	3.2	50.6	3.7	41.2	1.2	41.2	0.1	0.0	1.1	42.3	40.4
Hungary	3038	2.1	41.2	2.5	51.2	3.0	51.2	0.0	0.9	2.0	51.7	50.5
Iceland	1695	19.8	38.4	13.0	24.7	4.0	24.7	0.1	1.0	3.0	23.1	26.4
Iran, Islamic Rep.	3360	7.9	52.5	6.2	24.3	9.1	24.3	0.8	0.5	7.8	23.9	24.8
Ireland	2885	3.4	37.5	4.8	53.3	1.0	53.3	0.3	0.1	0.7	55.4	51.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	5.3	39.2	7.9	47.3	0.3	47.3	0.0	0.1	0.1	46.3	48.3
Korea	2777	5.8	55.0	4.0	35.0	0.2	35.0	0.0	0.0	0.2	35.1	34.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	5.0	45.7	5.1	41.4	2.8	41.4	0.0	0.0	2.8	42.6	40.3
Netherlands	2789	0.7	27.8	1.9	69.2	0.4	69.2	0.4	0.0	0.0	69.1	69.2
New Zealand	2499	5.4	37.1	7.2	48.0	2.3	48.0	0.0	0.5	1.8	48.5	47.5
Norway	2210	3.5	49.0	4.6	38.4	4.5	38.4	0.0	1.6	2.8	35.2	42.0
Portugal	2647	5.8	57.6	4.8	24.3	7.4	24.3	0.0	2.8	4.6	23.2	25.4
Scotland	3129	4.3	40.1	6.3	48.1	1.2	48.1	0.3	0.1	0.8	47.0	49.3
Singapore	7030	3.9	33.0	4.1	58.4	0.6	58.4	0.0	0.0	0.5	59.2	57.6
Slovenia	2521	2.3	40.4	3.2	53.0	1.1	53.0	0.1	0.1	0.9	51.8	54.2
Thailand	2870	11.1	43.7	14.4	30.2	0.7	30.2	0.1	0.1	0.5	29.5	30.9
United States	3811	6.2	36.9	9.5	45.5	1.8	45.5	0.1	0.1	1.7	45.7	45.4
INTERNATIONAL AVG	.	5.0	40.7	5.9	46.0	2.4	46.0	0.2	0.4	1.8	45.7	46.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: A03 KEY: C
 Find number of pencils given pencils/box and number of boxes. (Whole Numbers)
 Difficulty: 524

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	22.2	10.7	36.7	9.0	17.6	3.8	36.7	0.0	0.3	3.5	36.0	37.4
Austria	2525	15.4	6.1	59.8	3.4	11.5	3.9	59.8	0.2	0.2	3.5	61.1	58.5
Canada	7579	21.2	8.8	41.2	6.4	19.6	2.8	41.2	0.2	0.4	2.3	41.5	42.3
Cyprus	3306	17.7	4.9	55.1	3.7	13.4	5.2	55.1	0.2	0.3	4.7	56.0	54.5
Czech Republic	3252	17.6	7.4	47.8	3.8	15.7	7.7	47.8	1.0	0.3	6.4	48.5	47.0
England	3037	23.0	11.9	32.1	7.8	21.2	4.1	32.1	0.0	0.5	3.6	31.5	32.6
Greece	2955	13.2	6.9	47.6	4.6	15.1	12.7	47.6	0.6	0.8	11.3	48.4	46.8
Hong Kong	4390	15.0	2.9	71.6	2.1	7.1	1.3	71.6	0.2	0.0	1.1	73.5	70.2
Hungary	3038	15.6	5.3	59.3	3.2	11.6	5.0	59.3	0.0	1.0	4.0	59.2	59.7
Iceland	1695	25.6	14.4	21.7	9.3	22.2	6.7	21.7	0.1	1.3	5.3	18.8	24.7
Iran, Islamic Rep.	3360	16.0	7.5	43.6	4.5	15.1	13.2	43.6	1.2	0.8	11.3	41.6	46.0
Ireland	2885	20.7	8.1	43.5	6.8	17.5	3.2	43.5	0.7	0.2	2.3	46.1	41.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	14.1	4.9	61.7	5.6	12.9	0.8	61.7	0.0	0.1	0.6	62.3	61.1
Korea	2777	17.7	2.1	72.8	1.6	5.7	0.1	72.8	0.0	0.0	0.1	71.6	73.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	18.4	9.7	35.1	7.5	21.4	7.8	35.1	0.0	0.0	7.8	32.5	37.7
Netherlands	2789	25.2	10.5	36.7	8.5	18.2	0.9	36.7	0.9	0.0	0.0	32.6	39.9
New Zealand	2499	23.4	12.9	26.4	10.2	23.7	3.3	26.4	0.0	0.7	2.6	26.3	26.6
Norway	2210	23.7	12.0	23.4	8.7	21.7	10.5	23.4	0.0	1.8	8.6	19.8	26.8
Portugal	2648	14.1	5.2	57.5	2.8	10.0	10.5	57.5	0.0	2.9	7.5	58.6	56.3
Scotland	3129	23.2	11.2	34.8	7.5	19.8	3.4	34.8	0.2	0.1	3.1	33.8	35.6
Singapore	7030	7.7	3.0	80.6	2.0	6.2	0.6	80.6	0.0	0.0	0.6	82.8	78.5
Slovenia	2521	19.4	6.3	52.5	4.1	12.4	5.2	52.5	0.1	0.1	5.1	51.8	53.2
Thailand	2870	11.1	5.0	63.5	6.4	13.2	0.8	63.5	0.0	0.1	0.7	66.5	60.3
United States	3811	18.4	8.9	45.8	5.4	18.4	3.2	45.8	0.0	0.1	3.1	48.8	42.9
INTERNATIONAL AVG	.	18.3	7.8	48.0	5.6	15.5	4.9	48.0	0.2	0.5	4.1	47.9	48.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: A04 KEY: B
 Find number of small squares given groupings of hundreds, tens, and ones. (Whole Numbers)
 Difficulty: 420

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	2.6	83.6	4.7	6.9	2.1	83.6	0.0	0.5	1.6	82.3	85.0
Austria	2525	4.6	69.0	8.0	11.4	6.9	69.0	0.1	0.3	6.5	69.2	69.0
Canada	7579	3.1	81.9	5.1	8.0	1.9	81.9	0.0	0.4	1.4	77.3	85.9
Cyprus	3306	3.4	68.0	8.1	12.2	8.3	68.0	0.1	0.4	7.8	63.9	72.0
Czech Republic	3252	1.7	74.3	6.1	9.8	8.1	74.3	0.9	0.4	6.8	72.1	76.6
England	3037	5.8	71.1	9.3	9.5	4.4	71.1	0.0	0.6	3.7	70.1	72.1
Greece	2955	5.0	55.5	7.7	13.3	18.4	55.5	0.2	0.9	17.3	51.7	59.1
Hong Kong	4396	1.7	88.3	3.4	5.5	1.0	88.3	0.2	0.0	0.7	86.4	89.9
Hungary	3038	6.3	61.5	9.6	9.4	13.2	61.5	0.0	1.5	11.7	59.4	63.7
Iceland	1695	7.9	64.5	10.0	9.2	8.3	64.5	0.1	2.0	6.2	60.0	69.1
Iran, Islamic Rep.	3360	7.1	56.3	9.9	14.3	12.4	56.3	1.4	1.1	9.9	51.4	62.0
Ireland	2885	4.7	75.3	6.9	10.5	2.6	75.3	0.4	0.2	2.0	74.0	76.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	2.3	86.3	5.5	5.4	0.5	86.3	0.0	0.2	0.3	86.7	86.0
Korea	2777	2.2	92.2	3.5	2.0	0.1	92.2	0.0	0.0	0.1	91.4	92.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	4.2	74.2	6.9	8.9	5.9	74.2	0.0	0.0	5.9	73.8	74.5
Netherlands	2789	2.8	79.1	8.7	7.9	1.6	79.1	1.5	0.0	0.0	76.6	81.3
New Zealand	2499	8.2	66.6	9.0	12.2	3.9	66.6	0.0	0.7	3.2	65.1	68.3
Norway	2210	0.6	73.4	6.8	10.2	9.0	73.4	0.0	2.2	6.7	70.3	75.9
Portugal	2648	6.5	57.5	6.8	10.1	19.1	57.5	0.0	4.0	15.1	55.7	59.3
Scotland	3129	5.8	74.6	8.1	8.5	3.1	74.6	0.1	0.3	2.7	72.4	76.9
Singapore	7030	3.4	84.7	5.6	5.6	0.7	84.7	0.0	0.0	0.7	83.6	85.7
Slovenia	2521	3.4	80.8	5.2	5.4	5.1	80.8	0.1	0.1	4.9	79.8	81.7
Thailand	2870	5.3	77.7	8.6	7.6	0.8	77.7	0.0	0.1	0.7	78.3	76.9
United States	3811	2.9	81.5	4.5	9.0	2.1	81.5	0.0	0.1	2.0	78.8	84.1
INTERNATIONAL AVG	.	4.2	74.1	7.0	8.9	5.8	74.1	0.2	0.7	4.9	72.1	76.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: A05 KEY: C
 Which of these figures has the largest area? (Measurement, Estimation, & Number Sense)
 Difficulty: 415

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	1.6	13.7	80.1	2.3	2.4	80.1	0.0	0.6	1.7	78.9	81.3
Austria	2525	1.6	21.3	74.6	0.7	1.9	74.6	0.1	0.4	1.4	74.2	75.3
Canada	7579	2.3	17.4	76.0	2.5	1.8	76.0	0.0	0.7	1.1	74.7	77.6
Cyprus	3306	2.5	16.4	74.3	1.8	5.0	74.3	0.3	0.9	3.8	74.2	74.6
Czech Republic	3252	0.5	3.8	92.1	0.5	3.1	92.1	0.5	0.6	2.1	92.2	91.9
England	3037	2.4	17.4	75.3	2.5	2.4	75.3	0.0	0.7	1.7	75.7	74.9
Greece	2955	1.3	23.8	60.9	1.8	12.1	60.9	0.5	1.0	10.6	59.2	62.6
Hong Kong	4396	0.8	9.0	86.6	2.7	0.9	86.6	0.3	0.0	0.6	86.0	87.1
Hungary	3038	1.0	16.2	76.0	2.2	4.7	76.0	0.0	2.3	2.3	75.3	77.0
Iceland	1695	1.9	44.1	46.7	1.9	5.4	46.7	0.0	2.7	2.7	45.8	47.6
Iran, Islamic Rep.	3360	2.7	10.9	74.8	4.1	7.5	74.8	1.7	1.4	4.5	75.7	73.6
Ireland	2885	1.8	19.7	73.4	3.3	1.8	73.4	0.4	0.4	1.0	72.8	73.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	2.3	9.1	87.0	1.2	0.4	87.0	0.1	0.2	0.2	86.6	87.4
Korea	2777	4.5	20.8	73.5	1.2	0.0	73.5	0.0	0.0	0.0	71.7	75.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	1.4	9.6	86.8	0.7	1.4	86.8	0.0	0.2	1.2	86.9	86.7
Netherlands	2789	1.5	17.8	76.9	3.0	0.7	76.9	0.7	0.0	0.0	77.4	76.6
New Zealand	2499	2.7	18.8	71.1	4.1	3.4	71.1	0.0	1.1	2.3	70.2	72.1
Norway	2210	2.5	17.3	66.7	3.5	10.0	66.7	0.2	3.3	6.5	66.6	67.4
Portugal	2648	1.1	12.0	77.6	1.5	7.8	77.6	0.0	4.7	3.2	76.3	78.9
Scotland	3129	1.8	13.5	81.3	1.7	1.8	81.3	0.3	0.4	1.1	80.7	81.8
Singapore	7030	2.8	9.7	83.6	3.1	0.7	83.6	0.0	0.0	0.7	84.2	83.1
Slovenia	2521	5.7	14.5	76.9	1.0	1.9	76.9	0.2	0.1	1.6	78.0	75.8
Thailand	2870	2.3	9.3	86.1	1.4	0.8	86.1	0.0	0.2	0.7	86.3	85.9
United States	3811	2.6	21.5	71.4	2.3	2.2	71.4	0.2	0.1	1.9	72.3	70.6
INTERNATIONAL AVG	.	2.1	16.2	76.2	2.1	3.3	76.2	0.2	0.9	2.2	75.9	76.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: B05 KEY: B
 Multi-step graph problem: determine Sarah's relative height, then her height from graph. (Data Rep., Analysis and Probability)
 Difficulty: 515

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	12.4	60.1	12.4	11.8	3.3	60.1	0.0	0.8	2.5	63.0	57.2
Austria	1258	13.8	61.2	10.4	9.6	5.0	61.2	0.2	0.3	4.5	62.5	59.6
Canada	3800	11.5	62.4	11.7	10.7	3.8	62.4	0.7	0.7	2.4	65.3	59.6
Cyprus	1697	27.6	30.2	14.1	20.7	7.5	30.2	0.8	1.6	5.1	30.6	29.8
Czech Republic	1611	14.0	57.4	11.7	10.1	6.7	57.4	2.3	0.9	3.5	57.2	57.6
England	1522	14.8	55.2	14.7	12.1	3.2	55.2	0.0	0.4	2.8	60.9	49.5
Greece	1476	22.1	36.2	13.2	17.5	11.0	36.2	1.7	1.2	8.1	37.5	34.9
Hong Kong	2215	12.1	66.5	10.9	8.7	1.8	66.5	0.4	0.0	1.3	70.3	63.7
Hungary	1526	12.2	59.3	11.6	10.7	6.3	59.3	0.0	1.9	4.5	63.0	56.3
Iceland	855	17.8	53.6	13.4	7.8	7.4	53.6	0.1	3.7	3.6	52.3	55.0
Iran, Islamic Rep.	1680	23.7	25.8	16.6	21.1	12.9	25.8	2.7	2.1	8.1	27.1	24.3
Ireland	1444	18.2	59.5	10.8	9.2	2.2	59.5	0.7	0.3	1.3	66.7	53.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	8.2	60.3	22.0	8.6	0.8	60.3	0.0	0.3	0.5	62.1	58.6
Korea	1383	8.6	58.8	26.3	5.8	0.4	58.8	0.0	0.0	0.4	58.3	59.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	11.1	54.3	13.4	14.8	6.4	54.3	0.0	0.5	5.9	59.5	49.1
Netherlands	1395	10.2	60.6	15.8	9.0	4.5	60.6	4.5	0.0	0.0	63.2	57.9
New Zealand	1247	12.0	55.1	14.2	14.9	3.7	55.1	0.0	1.4	2.3	59.1	51.1
Norway	1105	16.3	49.2	14.0	7.9	12.6	49.2	0.8	4.7	7.1	48.6	50.4
Portugal	1322	25.4	38.8	10.7	12.9	12.2	38.8	0.0	5.1	7.2	39.2	38.5
Scotland	1564	13.7	56.8	13.9	12.1	3.5	56.8	0.7	0.5	2.3	61.1	52.4
Singapore	3504	10.7	69.6	12.8	6.3	0.7	69.6	0.0	0.0	0.7	73.1	66.4
Slovenia	1269	13.0	67.9	9.4	4.8	5.0	67.9	1.0	0.6	3.4	72.8	63.4
Thailand	1380	26.3	32.7	19.7	20.2	1.1	32.7	0.0	0.4	0.6	38.8	26.2
United States	1899	14.9	60.0	14.4	8.8	1.9	60.0	0.0	0.0	1.8	63.4	56.9
INTERNATIONAL AVG	.	15.4	53.8	14.1	11.5	5.2	53.8	0.7	1.1	3.3	56.5	51.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: B06 KEY: D
 Which of these solids has both a flat surface and a curved surface? (Geometry)
 Difficulty: 569

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	6.3	5.3	13.1	69.4	5.8	69.4	0.0	0.8	5.0	71.8	67.1
Austria	1258	9.6	10.2	50.0	23.0	7.2	23.0	2.5	0.4	4.3	22.2	23.5
Canada	3800	5.6	5.9	21.7	62.1	4.7	62.1	1.7	0.9	2.0	62.9	62.8
Cyprus	1697	16.8	15.4	29.9	23.0	14.8	23.0	3.2	2.1	9.5	24.6	21.1
Czech Republic	1611	6.1	7.5	43.8	29.4	13.1	29.4	7.4	1.1	4.5	29.3	29.6
England	1522	7.8	4.5	18.0	60.8	8.9	60.8	0.0	0.5	8.4	61.3	60.3
Greece	1476	6.6	16.8	24.9	34.2	17.6	34.2	3.0	1.2	13.3	33.7	34.8
Hong Kong	2215	3.2	14.1	24.5	51.2	7.0	51.2	4.6	0.0	2.4	50.6	52.0
Hungary	1526	4.0	8.4	33.4	40.7	13.4	40.7	0.0	2.7	10.8	42.7	39.2
Iceland	855	12.1	12.6	32.4	33.5	9.3	33.5	1.3	4.3	3.8	33.5	33.5
Iran, Islamic Rep.	1680	14.2	12.3	23.5	21.7	28.3	21.7	5.2	2.4	20.7	19.8	23.9
Ireland	1444	9.0	4.6	30.5	46.7	9.2	46.7	7.2	0.4	1.6	50.0	43.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	6.1	11.9	36.6	40.5	4.9	40.5	3.8	0.3	0.8	39.1	41.9
Korea	1383	10.6	8.1	24.7	56.0	0.5	56.0	0.0	0.0	0.5	57.5	54.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1031	14.4	11.4	30.1	29.9	14.2	29.9	0.0	0.9	13.4	29.3	30.6
Netherlands	1395	7.1	9.5	37.7	42.8	2.9	42.8	2.8	0.0	0.1	41.9	43.9
New Zealand	1247	8.8	7.9	19.0	56.1	8.2	56.1	0.0	1.8	6.4	59.7	52.5
Norway	1105	12.8	6.8	36.1	31.1	13.2	31.1	2.1	5.8	5.3	30.8	30.8
Portugal	1322	3.9	9.1	12.4	57.0	17.6	57.0	0.0	5.6	12.0	54.8	59.0
Scotland	1564	5.8	4.1	15.7	65.7	8.7	65.7	5.3	0.8	2.6	68.4	62.8
Singapore	3504	4.8	11.9	23.4	55.6	4.3	55.6	0.0	0.1	4.3	59.1	52.5
Slovenia	1269	9.0	9.1	33.4	39.5	9.0	39.5	2.6	0.9	5.5	40.7	38.4
Thailand	1380	8.1	25.5	17.5	46.3	2.6	46.3	0.0	0.5	2.1	47.1	45.4
United States	1899	5.2	4.2	30.5	56.6	3.5	56.6	1.7	0.1	1.7	59.7	53.8
INTERNATIONAL AVG	.	8.2	9.9	27.6	44.7	9.5	44.7	2.3	1.4	5.9	45.4	44.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: B07 KEY: C
 Word problem: best estimate of 84 x 57. (Measurement, Estimation, & Number Sense)
 Difficulty: 607

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	11.8	15.4	32.3	34.5	6.0	32.3	0.0	0.9	5.1	30.6	34.1
Austria	1257	11.1	17.5	32.9	27.3	11.2	32.9	0.2	0.4	10.5	31.9	34.0
Canada	3800	11.3	12.8	29.7	41.5	4.7	29.7	0.1	1.4	3.3	30.1	29.9
Cyprus	1697	11.7	13.2	25.6	33.6	15.9	25.6	0.2	2.5	13.3	24.9	26.3
Czech Republic	1612	6.6	13.9	36.3	31.9	11.3	36.3	1.1	1.6	8.6	35.5	37.1
England	1522	16.1	16.6	28.9	31.8	6.6	28.9	0.0	0.5	6.1	30.0	27.7
Greece	1476	12.9	10.6	23.5	30.5	22.5	23.5	0.8	1.6	20.1	22.7	24.4
Hong Kong	2214	9.8	16.1	37.0	30.5	6.6	37.0	0.1	0.0	6.4	34.3	39.0
Hungary	1526	9.2	13.1	35.5	30.9	11.3	35.5	0.0	3.3	8.0	34.8	36.6
Iceland	855	18.9	25.2	23.0	20.1	12.9	23.0	0.0	4.8	8.1	22.2	23.8
Iran, Islamic Rep.	1680	12.4	16.2	23.5	21.7	26.1	23.5	1.7	3.1	21.3	20.6	26.9
Ireland	1444	13.7	16.3	29.7	34.4	5.9	29.7	0.6	0.5	4.8	27.1	32.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	7.2	12.3	28.2	50.1	2.1	28.2	0.1	0.3	1.7	25.5	30.6
Korea	1383	4.3	7.6	35.9	51.6	0.6	35.9	0.0	0.0	0.6	35.2	36.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1032	10.2	25.2	26.6	26.6	11.4	26.6	0.0	0.9	10.4	26.6	26.6
Netherlands	1395	13.1	18.7	33.7	31.9	2.6	33.7	2.5	0.0	0.0	32.9	34.8
New Zealand	1247	15.5	15.2	27.2	36.5	5.6	27.2	0.0	2.4	3.1	26.2	28.2
Norway	1105	16.1	17.6	23.3	25.2	17.8	23.3	0.2	6.3	11.3	22.6	24.8
Portugal	1322	10.8	14.7	24.9	24.8	24.8	24.9	0.1	5.8	18.9	24.7	25.1
Scotland	1564	16.1	15.9	29.6	32.7	5.6	29.6	0.1	0.8	4.7	28.5	30.7
Singapore	3504	11.6	20.5	38.6	26.2	3.1	38.6	0.0	0.1	3.1	38.0	39.1
Slovenia	1269	8.8	10.6	31.3	37.4	12.0	31.3	0.2	1.1	10.7	27.6	34.7
Thailand	1380	15.6	14.6	33.6	34.2	2.0	33.6	0.0	0.5	1.5	33.7	33.5
United States	1899	9.2	12.0	42.8	32.6	3.4	42.8	0.1	0.1	3.2	42.7	42.9
INTERNATIONAL AVG	.	11.8	15.5	30.6	32.4	9.7	30.6	0.3	1.6	7.7	29.5	31.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: B08 KEY: B
 Which addition expression has the same value as 342? (Whole Numbers)
 Difficulty: 396

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	5.9	77.9	5.5	7.6	3.2	77.9	0.0	1.0	2.1	75.9	80.0
Austria	1257	4.2	82.8	2.7	6.5	3.7	82.8	0.3	0.6	2.9	82.3	83.3
Canada	3800	8.1	72.4	4.7	11.0	3.9	72.4	0.6	1.7	1.6	70.6	74.2
Cyprus	1697	9.1	74.2	4.5	4.2	8.0	74.2	0.3	3.2	4.5	73.6	75.0
Czech Republic	1612	3.3	90.7	1.6	1.0	3.4	90.7	0.3	2.0	1.1	90.5	91.0
England	1522	9.0	65.1	6.7	14.1	5.2	65.1	0.0	0.7	4.5	62.2	67.9
Greece	1476	6.7	77.7	3.5	5.7	6.4	77.7	0.8	1.9	3.7	77.2	78.0
Hong Kong	2214	5.0	89.8	1.8	1.8	1.6	89.8	0.3	0.1	1.2	88.3	91.0
Hungary	1526	2.1	87.0	1.4	3.5	6.0	87.0	0.0	4.0	2.0	88.7	86.6
Iceland	855	9.5	69.0	6.5	6.1	9.0	69.0	0.0	5.1	3.8	65.3	72.8
Iran, Islamic Rep.	1680	12.4	44.1	10.1	21.1	12.3	44.1	1.7	3.7	6.9	40.6	48.2
Ireland	1444	9.4	70.9	4.9	11.1	3.7	70.9	1.5	0.7	1.5	70.4	71.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	3.8	89.5	2.8	2.6	1.3	89.5	0.1	0.4	0.9	88.7	90.2
Korea	1383	3.7	94.9	0.5	0.7	0.2	94.9	0.0	0.0	0.2	94.5	95.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	5.6	87.8	1.8	1.6	3.1	87.8	0.0	1.1	2.0	86.4	89.2
Netherlands	1395	6.5	88.9	1.9	0.9	1.8	88.9	1.5	0.0	0.2	86.6	91.1
New Zealand	1247	11.0	64.7	6.4	12.7	5.1	64.7	0.0	2.6	2.5	63.6	65.9
Norway	1105	7.6	76.2	2.3	3.1	10.8	76.2	0.4	7.0	3.3	73.2	79.8
Portugal	1322	9.8	72.7	2.6	5.6	9.3	72.7	0.0	6.5	2.8	70.7	74.7
Scotland	1564	7.7	69.9	6.2	12.4	3.9	69.9	0.5	1.0	2.3	67.2	72.6
Singapore	3504	3.8	91.5	1.6	2.1	1.0	91.5	0.0	0.1	0.9	92.4	90.7
Slovenia	1269	3.6	87.9	2.6	2.5	3.4	87.9	0.1	1.4	1.9	87.3	88.5
Thailand	1380	5.9	79.6	4.0	9.3	1.1	79.6	0.0	0.5	0.6	79.8	79.4
United States	1899	3.6	75.7	4.0	14.1	2.7	75.7	0.2	0.1	2.4	74.4	76.8
INTERNATIONAL AVG	.	6.5	78.4	3.8	6.7	4.6	78.4	0.4	1.9	2.3	77.1	79.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: B09 KEY: B
 What is the sum of 2.5 and 3.8? (Fractions and Proportionality)
 Difficulty: 534

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	21.0	42.0	11.1	16.8	9.1	42.0	0.0	1.1	8.0	38.1	45.8
Austria	1257	20.5	44.0	6.1	15.0	14.3	44.0	1.5	0.7	12.1	37.8	50.4
Canada	3800	26.2	37.2	9.5	17.8	9.3	37.2	2.7	1.8	4.7	35.0	38.7
Cyprus	1697	22.4	33.7	8.7	13.6	21.6	33.7	3.4	3.4	14.8	33.0	34.4
Czech Republic	1612	15.1	40.8	6.1	15.2	22.9	40.8	3.8	2.3	16.8	37.8	43.7
England	1522	20.9	38.3	12.8	19.5	8.5	38.3	0.0	0.7	7.7	37.8	38.9
Greece	1476	15.1	26.6	5.4	11.0	42.0	26.6	8.8	1.9	31.3	27.6	25.7
Hong Kong	2214	14.1	77.2	4.0	2.4	2.3	77.2	0.3	0.1	1.9	74.5	79.4
Hungary	1526	17.9	38.3	6.0	18.3	19.5	38.3	0.0	4.3	15.3	37.9	39.3
Iceland	855	25.1	29.8	12.5	15.3	17.2	29.8	1.1	5.6	10.5	29.1	30.6
Iran, Islamic Rep.	1680	21.4	20.3	9.8	18.0	30.5	20.3	5.1	3.8	21.6	20.2	20.4
Ireland	1444	17.4	51.9	8.3	14.1	8.3	51.9	2.9	0.7	4.7	53.8	50.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	4.1	90.7	2.2	2.0	0.9	90.7	0.1	0.5	0.4	91.1	90.4
Korea	1383	3.1	94.0	1.4	1.1	0.3	94.0	0.0	0.0	0.3	94.2	93.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1032	19.6	31.9	9.1	18.2	21.1	31.9	0.0	1.1	20.0	33.0	30.9
Netherlands	1395	13.3	50.0	9.7	24.4	2.7	50.0	2.7	0.0	0.0	46.0	54.2
New Zealand	1247	24.9	28.8	12.7	22.6	11.0	28.8	0.0	3.0	8.0	29.3	28.2
Norway	1105	20.2	25.6	13.2	17.2	23.8	25.6	1.4	7.3	15.2	21.0	31.3
Portugal	1322	11.8	61.6	4.8	6.2	15.6	61.6	0.1	6.8	8.7	62.8	60.5
Scotland	1564	19.1	42.5	10.6	18.1	9.8	42.5	1.9	1.1	6.8	41.8	42.8
Singapore	3504	8.7	81.2	4.4	4.2	1.5	81.2	0.0	0.1	1.4	83.4	79.4
Slovenia	1269	16.2	48.2	7.6	12.3	15.6	48.2	1.4	1.4	12.9	43.9	52.2
Thailand	1380	22.4	60.3	6.0	10.0	1.2	60.3	0.0	0.5	0.7	60.4	60.2
United States	1899	25.6	45.4	8.8	15.3	4.9	45.4	0.4	0.2	4.3	49.2	41.9
INTERNATIONAL AVG	.	17.8	47.5	7.9	13.7	13.1	47.5	1.6	2.0	9.5	46.6	48.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: C01 KEY: B
 Shown graph (20 unit increments), which class collected 45 bottles? (Data Rep., Analysis and Probability)
 Difficulty: 406

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	5.4	85.4	2.2	3.0	4.0	85.4	0.0	0.7	3.3	86.3	84.4
Austria	944	8.8	76.9	4.3	4.8	5.2	76.9	0.5	0.9	3.8	74.8	79.2
Canada	2832	5.3	84.5	4.8	2.7	2.7	84.5	1.1	0.3	1.3	83.4	86.4
Cyprus	1169	9.5	65.0	10.2	4.8	10.5	65.0	1.6	0.9	7.9	60.3	70.0
Czech Republic	1212	8.2	73.2	4.2	6.4	8.0	73.2	2.1	0.9	5.0	73.6	72.8
England	1145	6.7	79.8	8.0	2.5	3.0	79.8	0.0	0.5	2.6	79.0	80.6
Greece	1115	5.0	61.3	7.8	17.0	8.9	61.3	0.6	0.7	7.6	60.9	61.5
Hong Kong	1640	2.2	91.4	2.6	2.2	1.6	91.4	0.5	0.0	1.0	89.6	92.8
Hungary	1142	10.4	66.8	7.2	4.7	10.8	66.8	0.0	2.2	8.7	66.6	68.7
Iceland	633	12.0	68.9	8.2	5.0	5.9	68.9	0.9	1.2	3.9	65.2	72.7
Iran, Islamic Rep.	1258	18.3	30.1	18.5	12.3	20.8	30.1	3.4	1.6	15.8	25.6	35.5
Ireland	1072	6.4	82.5	4.8	3.4	2.9	82.5	2.2	0.4	0.4	80.8	83.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	2.3	94.8	1.6	0.3	1.1	94.8	0.6	0.1	0.3	96.4	93.3
Korea	1039	1.9	93.5	1.3	3.0	0.2	93.5	0.0	0.0	0.2	92.4	94.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	12.9	59.8	12.6	6.9	7.9	59.8	0.0	0.0	7.9	57.7	61.9
Netherlands	1030	8.3	81.5	5.2	3.4	1.5	81.5	1.5	0.0	0.1	81.6	81.3
New Zealand	943	8.6	76.5	6.3	4.3	4.3	76.5	0.0	1.5	2.8	78.3	74.7
Norway	837	8.4	67.8	9.1	4.2	10.4	67.8	0.8	2.9	6.7	62.3	72.6
Portugal	992	10.2	55.0	10.7	4.8	19.4	55.0	0.0	3.6	15.8	55.9	54.0
Scotland	1155	5.0	82.8	7.7	2.3	2.1	82.8	0.4	0.4	1.3	82.8	82.7
Singapore	2631	2.7	93.5	1.8	0.8	1.2	93.5	0.0	0.1	1.1	94.5	92.7
Slovenia	953	9.0	75.9	5.8	3.3	6.0	75.9	0.7	0.2	5.1	77.5	74.3
Thailand	1143	8.2	73.9	8.9	7.5	1.5	73.9	0.0	0.0	1.5	71.9	75.9
United States	1411	4.0	91.5	2.3	1.0	1.3	91.5	0.1	0.0	1.2	91.9	91.1
INTERNATIONAL AVG	.	7.5	75.5	6.5	4.6	5.9	75.5	0.7	0.8	4.4	74.6	76.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

THIRD INTERNATIONAL MATHEMATICS AND SCIENCE STUDY - 1995 ASSESSMENT
 Percent of responses by Math Item Categories - THIRD GRADE

May 14, 1998 12

Item: C02 KEY: D
 Find volume of a stack of 5 cubes. (Measurement, Estimation, & Number Sense)
 Difficulty: 495

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	8.3	24.9	7.9	55.9	3.0	55.9	0.0	0.7	2.3	58.2	53.6
Austria	944	4.5	22.5	6.6	62.4	3.9	62.4	0.0	1.0	2.9	59.3	66.3
Canada	2832	6.4	25.9	9.1	55.8	2.9	55.8	0.0	0.5	2.4	52.7	58.9
Cyprus	1169	8.2	23.8	7.9	50.7	9.5	50.7	0.2	1.6	7.8	49.0	52.6
Czech Republic	1212	1.3	12.9	3.5	78.6	3.7	78.6	0.3	1.2	2.2	79.3	77.9
England	1145	8.4	28.5	8.1	51.5	3.5	51.5	0.0	0.5	3.0	50.2	52.9
Greece	1115	5.4	29.1	5.5	53.7	6.3	53.7	0.1	1.1	5.0	50.4	57.0
Hong Kong	1640	6.3	12.2	3.7	76.7	1.0	76.7	0.2	0.0	0.9	73.8	79.1
Hungary	1142	5.1	26.9	7.3	52.2	8.4	52.2	0.0	3.1	5.3	53.8	51.6
Iceland	633	15.4	35.1	13.6	28.2	7.7	28.2	0.0	2.2	5.5	28.1	28.2
Iran, Islamic Rep.	1258	10.1	27.2	10.2	39.2	13.4	39.2	1.6	2.2	9.5	35.9	43.2
Ireland	1072	8.0	27.9	7.8	54.2	2.1	54.2	0.1	0.5	1.5	54.6	53.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	4.4	19.8	11.8	62.8	1.2	62.8	0.0	0.2	1.0	61.4	64.1
Korea	1039	1.1	12.7	1.2	85.0	0.0	85.0	0.0	0.0	0.0	82.4	87.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	2.8	25.0	4.9	64.2	3.1	64.2	0.0	0.3	2.7	64.2	64.2
Netherlands	1030	5.9	15.6	6.5	70.9	1.1	70.9	1.0	0.0	0.1	71.3	70.6
New Zealand	943	16.7	28.5	7.3	43.5	4.0	43.5	0.0	1.6	2.4	45.8	41.0
Norway	837	16.6	24.6	9.6	36.1	13.1	36.1	0.2	3.8	9.0	36.1	36.5
Portugal	992	6.7	26.2	6.6	47.4	13.1	47.4	0.0	5.2	7.9	44.0	50.7
Scotland	1155	7.2	29.3	8.7	52.3	2.4	52.3	0.2	0.5	1.7	47.7	56.2
Singapore	2631	4.4	17.5	5.3	71.6	1.3	71.6	0.0	0.1	1.2	72.5	70.8
Slovenia	953	6.5	21.6	5.0	63.1	3.7	63.1	0.0	0.3	3.4	60.2	66.0
Thailand	1143	16.5	25.5	8.4	48.4	1.2	48.4	0.0	0.1	1.1	51.6	45.3
United States	1411	7.1	31.4	6.2	53.1	2.1	53.1	0.0	0.0	2.0	50.7	55.3
INTERNATIONAL AVG	.	7.6	23.9	7.2	56.6	4.7	56.6	0.2	1.1	3.4	55.6	57.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: C03 KEY: E
 Which figure shows 2/3 of the square shaded? (Fractions and Proportionality)
 Difficulty: 569

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	22.5	17.9	4.8	4.0	45.6	5.1	45.6	0.0	0.7	4.3	48.0	43.2
Austria	944	23.8	19.0	6.7	6.6	27.6	16.3	27.6	1.3	1.0	14.0	24.2	31.4
Canada	2832	30.8	14.5	4.4	5.1	37.1	8.0	37.1	1.9	0.8	5.3	36.3	37.7
Cyprus	1169	11.3	13.3	3.4	3.9	54.3	13.8	54.3	6.1	2.0	5.7	57.8	51.0
Czech Republic	1213	18.2	20.5	5.0	5.2	26.3	24.8	26.3	7.1	1.4	16.2	25.5	27.2
England	1145	23.0	25.1	4.5	6.1	31.6	9.7	31.6	0.0	0.5	9.2	29.9	33.5
Greece	1115	23.3	29.2	3.1	2.4	23.2	18.7	23.2	4.6	1.1	13.0	23.8	22.7
Hong Kong	1653	6.1	5.2	1.6	6.1	62.8	18.2	62.8	6.2	0.0	12.0	60.5	64.7
Hungary	1142	22.8	22.2	2.8	6.3	31.9	14.0	31.9	0.0	3.8	10.1	34.0	31.1
Iceland	633	36.3	17.1	6.4	5.6	21.5	13.0	21.5	0.4	2.9	9.8	20.2	22.9
Iran, Islamic Rep.	1258	18.4	12.0	6.8	6.6	31.4	24.8	31.4	3.0	2.9	18.9	33.0	29.4
Ireland	1072	22.5	14.1	2.5	4.4	52.4	4.1	52.4	0.8	0.6	2.7	55.9	49.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	18.7	5.9	1.4	2.1	63.7	8.2	63.7	5.0	0.3	2.9	69.2	58.4
Korea	1039	13.1	2.4	0.1	2.3	82.0	0.2	82.0	0.0	0.0	0.2	84.7	79.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	767	27.0	13.9	6.3	3.5	34.5	14.8	34.5	0.0	0.4	14.4	36.1	32.9
Netherlands	1030	29.3	25.1	4.1	8.9	27.6	5.0	27.6	4.9	0.0	0.1	28.8	26.2
New Zealand	943	29.6	17.9	5.4	5.8	32.1	9.2	32.1	0.0	1.6	7.7	34.1	30.2
Norway	837	21.1	20.1	5.8	8.1	16.4	28.5	16.4	1.2	4.6	22.7	17.1	16.3
Portugal	991	35.2	9.2	5.9	4.8	17.6	27.2	17.6	0.0	5.5	21.7	19.4	15.9
Scotland	1155	22.0	23.8	4.5	6.0	37.5	6.1	37.5	1.0	0.5	4.6	36.7	38.0
Singapore	2631	4.0	3.2	1.1	4.5	83.8	3.5	83.8	0.0	0.2	3.3	86.3	81.6
Slovenia	953	27.4	15.7	7.5	4.4	29.9	15.1	29.9	3.3	0.6	11.2	31.9	27.9
Thailand	1143	30.6	4.6	2.4	1.8	50.7	9.9	50.7	0.0	0.1	9.8	54.0	47.6
United States	1412	20.6	10.9	2.3	4.6	57.9	3.6	57.9	0.5	0.0	3.1	60.0	56.0
INTERNATIONAL AVG	.	22.4	15.1	4.1	5.0	40.8	12.6	40.8	2.0	1.3	9.3	42.0	39.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: C04 KEY: A
 Which expression shows how long it will take to wash 8 windows at 4 minutes/window? (Whole Numbers)
 Difficulty: 439

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	66.8	10.8	6.4	13.2	2.8	66.8	0.0	0.8	2.0	66.7	66.9
Austria	944	52.3	16.8	9.5	15.9	5.4	52.3	0.4	1.1	3.9	54.9	50.5
Canada	2832	62.8	12.2	5.1	17.1	2.8	62.8	0.4	0.9	1.5	59.0	67.1
Cyprus	1169	74.2	8.5	5.2	6.2	6.0	74.2	0.2	2.1	3.6	71.8	76.3
Czech Republic	1213	80.2	4.7	2.5	7.2	5.5	80.2	0.7	1.7	3.1	79.7	80.8
England	1145	57.9	12.8	8.0	17.2	4.2	57.9	0.0	0.5	3.6	58.9	56.8
Greece	1115	68.6	8.8	5.2	8.7	8.7	68.6	0.3	1.4	7.0	71.8	65.4
Hong Kong	1653	79.7	9.4	4.0	5.6	1.4	79.7	0.4	0.0	1.0	75.8	82.6
Hungary	1142	70.8	7.6	4.5	8.6	8.5	70.8	0.0	4.2	4.3	71.2	71.0
Iceland	632	39.7	17.8	8.8	25.8	8.0	39.7	0.0	3.5	4.4	38.2	41.3
Iran, Islamic Rep.	1258	50.7	12.7	7.1	14.0	15.6	50.7	4.8	3.5	7.3	47.5	54.4
Ireland	1072	72.0	10.0	4.4	10.2	3.5	72.0	1.1	0.6	1.8	74.7	69.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	84.6	5.9	2.9	5.7	0.9	84.6	0.1	0.3	0.5	84.8	84.5
Korea	1039	89.7	3.8	0.9	5.4	0.2	89.7	0.0	0.0	0.2	89.2	90.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	68.7	9.3	5.3	13.1	3.6	68.7	0.0	0.4	3.2	68.7	68.6
Netherlands	1030	82.1	7.9	2.5	5.7	1.7	82.1	1.3	0.0	0.4	81.6	82.6
New Zealand	943	48.6	13.9	9.2	23.6	4.8	48.6	0.0	1.6	3.2	49.1	48.0
Norway	837	46.5	12.1	5.5	24.6	11.3	46.5	0.2	5.2	6.0	44.5	47.3
Portugal	992	55.6	12.2	12.1	6.4	13.7	55.6	0.0	7.1	6.6	57.6	53.7
Scotland	1155	63.6	13.8	6.0	12.0	4.7	63.6	0.3	0.7	3.7	62.8	64.1
Singapore	2631	84.8	6.2	3.7	4.1	1.3	84.8	0.0	0.2	1.1	85.4	84.2
Slovenia	953	71.7	10.3	3.9	11.0	3.1	71.7	0.2	0.8	2.2	72.9	70.5
Thailand	1143	55.9	14.3	12.6	15.9	1.2	55.9	0.0	0.1	1.1	58.8	53.2
United States	1412	68.9	10.9	4.3	13.7	2.2	68.9	0.1	0.0	2.1	70.6	67.4
INTERNATIONAL AVG	.	66.5	10.5	5.8	12.1	5.0	66.5	0.4	1.5	3.1	66.5	66.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: D05 KEY: A
 Shown bar graph, which two classes collected exactly 80 bottles? (Data Rep., Analysis and Probability)
 Difficulty: 442

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	75.9	4.3	6.0	5.4	8.4	75.9	0.0	0.5	7.9	79.4	72.1
Austria	947	64.1	6.0	8.2	6.9	14.8	64.1	10.6	1.1	3.1	65.8	63.1
Canada	2826	74.5	3.6	5.7	4.9	11.2	74.5	10.0	0.2	1.0	76.4	73.7
Cyprus	1220	59.2	8.6	12.8	5.1	14.2	59.2	7.1	1.9	5.2	62.8	55.8
Czech Republic	1220	75.7	3.8	6.7	5.6	8.4	75.7	2.8	1.8	3.7	74.3	77.0
England	1133	74.8	3.9	5.8	4.7	10.8	74.8	0.0	0.7	10.1	77.2	72.4
Greece	1096	54.3	6.7	9.9	9.1	19.9	54.3	11.8	2.1	6.0	53.3	55.1
Hong Kong	1639	90.7	2.1	3.8	1.5	2.0	90.7	0.4	0.1	1.4	91.3	90.8
Hungary	1130	63.4	6.7	9.3	8.0	12.6	63.4	0.0	4.0	8.6	66.3	60.2
Iceland	630	70.0	5.7	8.6	6.1	9.6	70.0	2.8	4.5	2.3	72.5	67.5
Iran, Islamic Rep.	1265	29.9	13.8	18.6	19.1	18.6	29.9	3.2	3.2	12.3	30.2	29.6
Ireland	1089	72.7	5.3	7.7	5.3	9.0	72.7	7.0	0.7	1.2	78.0	67.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	79.0	2.3	2.6	2.2	13.8	79.0	13.2	0.3	0.4	79.8	78.3
Korea	1058	95.0	0.7	3.4	0.7	0.1	95.0	0.0	0.0	0.1	95.0	95.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	50.3	11.4	12.7	10.7	14.8	50.3	0.0	1.4	13.5	51.0	49.5
Netherlands	1047	78.1	4.1	7.7	4.0	6.2	78.1	6.1	0.0	0.1	81.7	74.2
New Zealand	949	70.4	4.1	6.9	8.4	10.2	70.4	0.0	1.0	9.2	75.5	65.4
Norway	828	59.2	7.2	12.3	3.8	17.6	59.2	4.5	4.3	8.8	57.7	60.1
Portugal	1003	53.2	6.8	12.6	8.1	19.3	53.2	0.0	6.1	13.2	54.4	51.9
Scotland	1177	74.1	4.4	7.4	5.1	8.9	74.1	7.1	0.6	1.3	76.6	71.4
Singapore	2622	91.2	2.2	2.8	2.0	1.8	91.2	0.0	0.1	1.7	91.9	90.6
Slovenia	945	67.8	7.7	9.8	4.4	10.3	67.8	4.4	0.7	5.2	68.6	67.0
Thailand	1092	76.1	7.1	9.1	5.8	1.8	76.1	0.0	0.4	1.5	79.4	72.5
United States	1435	86.6	3.6	2.7	2.6	4.4	86.6	2.3	0.1	2.0	87.9	85.2
INTERNATIONAL AVG	.	70.3	5.5	8.0	5.8	10.4	70.3	3.9	1.5	5.0	72.0	68.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: D06 KEY: D
 How many degrees did temperature rise from minus 3 to 5? (Measurement, Estimation, & Number Sense)
 Difficulty: 556

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	35.5	6.1	13.4	42.8	2.1	42.8	0.0	0.5	1.6	37.9	48.1
Austria	947	20.7	4.5	8.6	62.9	3.3	62.9	0.5	1.2	1.6	56.5	69.3
Canada	2826	39.2	5.1	12.5	41.6	1.6	41.6	0.3	0.2	1.1	38.7	44.0
Cyprus	1220	26.5	7.5	19.3	40.8	5.9	40.8	0.9	2.3	2.7	39.4	42.4
Czech Republic	1220	21.9	3.0	7.0	62.9	5.2	62.9	0.6	2.4	2.1	57.8	68.3
England	1133	26.4	7.0	15.7	48.3	2.6	48.3	0.0	0.9	1.7	46.6	49.9
Greece	1096	19.0	6.7	17.6	47.3	9.4	47.3	1.8	2.3	5.2	44.1	50.0
Hong Kong	1639	25.3	3.4	12.0	58.3	1.0	58.3	0.7	0.1	0.2	54.3	61.8
Hungary	1130	44.5	5.0	5.7	36.9	7.9	36.9	0.0	5.2	2.7	36.9	38.6
Iceland	630	47.6	4.6	11.3	29.8	6.7	29.8	0.0	5.6	1.1	28.7	31.0
Iran, Islamic Rep.	1265	21.4	10.8	20.2	35.5	12.1	35.5	1.6	3.5	7.0	35.6	35.4
Ireland	1089	32.6	5.9	15.9	43.7	1.9	43.7	0.3	1.0	0.7	45.3	42.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	33.3	4.7	8.5	52.4	1.0	52.4	0.5	0.3	0.2	48.5	56.0
Korea	1058	42.0	4.5	7.1	46.5	0.0	46.5	0.0	0.0	0.0	38.9	52.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	20.6	5.6	11.2	56.8	5.8	56.8	0.0	1.6	4.2	50.9	62.7
Netherlands	1047	22.6	2.8	9.0	64.5	1.2	64.5	1.0	0.0	0.1	62.6	66.1
New Zealand	949	32.5	6.9	16.8	40.5	3.3	40.5	0.0	1.7	1.7	40.0	41.1
Norway	828	25.4	4.8	10.9	49.1	9.7	49.1	0.7	5.1	3.9	43.8	53.1
Portugal	1003	22.5	7.4	17.6	38.2	14.2	38.2	0.0	6.9	7.3	35.7	40.8
Scotland	1177	27.0	6.6	18.1	46.1	2.2	46.1	0.5	0.6	1.1	44.4	48.0
Singapore	2622	44.1	6.9	9.8	38.4	0.9	38.4	0.0	0.1	0.8	36.1	40.4
Slovenia	945	43.7	3.5	5.2	44.2	3.5	44.2	0.4	1.0	2.0	36.0	52.3
Thailand	1092	30.9	14.8	26.3	26.7	1.3	26.7	0.0	0.4	1.0	25.5	27.9
United States	1435	38.7	6.1	11.9	41.3	2.0	41.3	0.0	0.1	1.9	40.5	42.1
INTERNATIONAL AVG	.	31.0	6.0	13.0	45.6	4.4	45.6	0.4	1.8	2.2	42.7	48.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: D07 KEY: C
 Which two figures are congruent? (Geometry)
 Difficulty: 386

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	4.6	4.7	79.5	6.9	4.3	79.5	0.0	0.8	3.4	79.8	79.1
Austria	947	4.6	3.0	84.4	3.9	4.1	84.4	1.0	1.3	1.8	85.8	83.7
Canada	2826	5.1	3.9	82.2	7.0	1.9	82.2	0.6	0.3	1.1	81.8	82.5
Cyprus	1220	5.7	8.5	69.5	9.1	7.2	69.5	1.3	2.7	3.1	67.2	71.9
Czech Republic	1220	1.9	1.0	88.5	2.8	5.7	88.5	0.8	3.2	1.8	88.1	89.0
England	1133	5.5	4.4	80.1	6.3	3.7	80.1	0.0	1.1	2.6	81.8	78.4
Greece	1096	3.9	2.7	74.3	7.9	11.2	74.3	4.5	3.0	3.7	72.8	75.5
Hong Kong	1639	3.6	2.0	90.0	3.3	1.2	90.0	0.2	0.1	0.9	90.1	90.2
Hungary	1130	7.2	5.4	70.8	7.7	8.9	70.8	0.0	5.6	3.3	73.0	68.8
Iceland	630	2.5	3.4	81.1	4.3	8.6	81.1	0.6	5.9	2.1	82.6	79.6
Iran, Islamic Rep.	1265	9.7	9.8	42.0	19.6	18.9	42.0	3.6	4.1	11.2	40.9	43.3
Ireland	1089	5.5	3.8	79.6	7.7	3.4	79.6	1.6	1.0	0.9	81.3	78.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	4.8	3.2	86.4	4.9	0.8	86.4	0.1	0.4	0.3	87.4	85.4
Korea	1058	3.7	2.1	89.8	4.4	0.1	89.8	0.0	0.0	0.1	88.2	91.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	1.8	3.3	88.9	1.8	4.1	88.9	0.0	1.7	2.4	89.5	88.3
Netherlands	1047	4.7	4.2	85.2	4.2	1.7	85.2	1.6	0.0	0.1	84.0	86.5
New Zealand	949	5.2	4.6	76.2	10.2	3.8	76.2	0.0	2.0	1.8	77.6	74.7
Norway	828	3.8	3.8	73.5	7.3	11.5	73.5	0.8	5.8	4.9	73.8	73.0
Portugal	1003	5.0	4.9	62.4	12.3	15.4	62.4	0.0	7.1	8.4	60.0	64.8
Scotland	1177	4.9	4.5	80.9	6.4	3.3	80.9	0.4	0.8	2.1	80.5	81.3
Singapore	2622	4.8	4.1	85.2	4.8	1.0	85.2	0.0	0.1	1.0	85.6	85.1
Slovenia	945	5.5	2.1	84.8	4.0	3.7	84.8	0.9	1.2	1.5	82.7	86.8
Thailand	1092	6.7	4.7	73.1	13.9	1.6	73.1	0.0	0.6	1.0	75.5	70.6
United States	1435	3.6	3.2	84.8	5.9	2.4	84.8	0.0	0.1	2.3	84.7	84.9
INTERNATIONAL AVG	.	4.8	4.1	78.9	6.9	5.4	78.9	0.8	2.0	2.6	79.0	78.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: D08 KEY: E
 Subtract: 4.03 - 1.15. (Fractions and Proportionality)
 Difficulty: 539

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	12.3	3.4	36.5	11.6	28.0	8.1	28.0	0.0	1.1	7.0	26.6	29.5
Austria	947	12.2	0.9	12.6	6.9	58.9	8.4	58.9	0.0	1.3	7.2	62.6	55.3
Canada	2826	7.7	2.0	29.6	12.9	42.5	5.3	42.5	0.4	0.4	4.6	42.5	43.1
Cyprus	1220	2.7	0.7	14.4	9.4	63.3	9.4	63.3	0.4	3.1	5.9	66.0	61.0
Czech Republic	1220	5.6	1.0	22.6	10.9	47.3	12.6	47.3	1.6	3.9	7.1	46.2	48.5
England	1133	14.1	5.7	38.5	9.9	21.0	10.9	21.0	0.0	1.2	9.6	21.7	20.3
Greece	1096	3.4	1.2	17.0	8.2	41.7	28.5	41.7	0.6	3.3	24.6	37.9	45.0
Hong Kong	1639	3.7	0.6	5.0	11.9	77.2	1.5	77.2	0.1	0.4	1.0	77.1	77.5
Hungary	1130	3.8	1.8	16.8	9.9	52.9	14.8	52.9	0.0	6.1	8.7	54.6	50.8
Iceland	630	10.4	6.1	48.5	8.1	11.4	15.6	11.4	0.0	6.0	9.6	11.9	10.8
Iran, Islamic Rep.	1265	7.7	7.2	15.9	11.2	27.2	30.8	27.2	1.2	4.9	24.7	29.1	25.0
Ireland	1089	5.8	2.5	17.9	13.2	54.0	6.6	54.0	1.0	1.0	4.7	61.3	47.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	6.3	2.1	19.5	14.1	57.1	0.9	57.1	0.0	0.4	0.5	60.0	54.4
Korea	1058	1.5	0.5	7.2	9.1	81.6	0.0	81.6	0.0	0.0	0.0	82.4	81.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	6.2	3.3	30.5	10.9	28.4	20.8	28.4	0.0	1.9	18.9	25.0	32.0
Netherlands	1047	4.3	2.1	25.3	15.7	50.4	2.1	50.4	2.1	0.0	0.1	49.6	51.0
New Zealand	949	12.9	5.9	43.0	12.1	19.4	6.8	19.4	0.0	2.5	4.2	19.4	19.3
Norway	828	15.9	4.4	38.1	7.6	11.3	22.8	11.3	0.1	6.9	15.7	10.6	11.5
Portugal	1003	10.5	1.1	13.7	9.6	47.9	17.1	47.9	0.0	8.4	8.6	49.1	46.6
Scotland	1177	10.3	4.9	32.7	14.2	30.0	7.8	30.0	0.1	1.1	6.6	33.4	26.1
Singapore	2622	1.6	1.5	5.8	8.5	81.4	1.2	81.4	0.0	0.1	1.2	83.6	79.4
Slovenia	944	5.0	0.7	26.3	8.8	47.9	11.3	47.9	0.6	1.5	9.2	48.7	47.2
Thailand	1092	4.6	2.5	21.4	12.9	57.1	1.5	57.1	0.0	0.7	0.9	58.0	56.3
United States	1435	5.1	2.3	21.6	17.3	51.4	2.4	51.4	0.0	0.3	2.1	52.6	50.3
INTERNATIONAL AVG	.	7.2	2.7	23.4	11.0	45.4	10.3	45.4	0.3	2.4	7.6	46.2	44.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: D09 KEY: C
 Which of the following diagram has three out of every four squares shaded? (Fractions and Proportionality)
 Difficulty: 574

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	14.7	19.3	40.9	17.7	7.4	40.9	0.0	1.2	6.2	39.5	42.3
Austria	947	10.3	23.6	36.1	12.9	17.1	36.1	4.3	1.4	11.4	38.0	34.3
Canada	2826	14.2	19.7	37.7	19.0	9.3	37.7	2.8	0.6	5.9	35.0	39.8
Cyprus	1220	13.0	7.9	41.7	14.1	23.2	41.7	6.1	3.9	13.2	43.8	40.0
Czech Republic	1220	19.1	0.9	35.4	17.6	27.0	35.4	15.1	4.0	7.8	34.1	36.8
England	1133	11.2	18.5	40.9	16.8	12.6	40.9	0.0	1.3	11.3	39.3	42.6
Greece	1096	28.0	2.1	30.8	11.4	27.7	30.8	8.8	4.2	14.7	28.6	32.7
Hong Kong	1638	9.6	15.2	46.2	19.8	9.2	46.2	4.0	0.4	4.8	43.6	48.1
Hungary	1130	17.0	6.2	32.1	20.1	24.5	32.1	0.0	6.6	17.9	32.3	32.3
Iceland	630	11.6	16.1	38.6	17.5	16.2	38.6	4.2	6.1	5.8	38.1	39.1
Iran, Islamic Rep.	1265	20.9	12.9	22.1	14.8	29.3	22.1	6.3	6.5	16.5	19.1	25.5
Ireland	1089	9.3	16.2	48.0	15.1	11.3	48.0	6.9	1.0	3.4	49.5	46.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	9.6	5.8	61.9	18.8	3.8	61.9	2.8	0.4	0.6	64.2	59.7
Korea	1058	6.2	24.5	52.7	16.4	0.3	52.7	0.0	0.0	0.3	51.8	53.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	18.0	6.5	39.5	15.6	20.4	39.5	0.0	2.5	17.9	39.2	39.9
Netherlands	1047	14.7	12.9	46.3	17.8	8.2	46.3	8.1	0.0	0.1	43.5	49.2
New Zealand	949	17.3	17.0	36.5	20.8	8.4	36.5	0.0	2.8	5.6	37.3	35.7
Norway	828	13.4	12.2	35.8	11.6	26.9	35.8	3.9	8.5	14.4	31.1	40.6
Portugal	1003	14.8	8.6	31.4	11.8	33.5	31.4	0.0	9.5	24.0	29.1	33.6
Scotland	1177	14.7	17.9	39.1	16.6	11.8	39.1	4.8	1.5	5.5	37.0	41.1
Singapore	2622	5.5	23.8	54.0	14.6	2.0	54.0	0.0	0.1	1.9	52.4	55.4
Slovenia	945	11.4	10.3	55.7	7.9	14.8	55.7	5.7	2.2	6.9	56.1	55.3
Thailand	1092	12.1	16.2	43.1	24.6	3.9	43.1	0.1	0.7	3.1	42.9	43.3
United States	1434	11.8	19.5	46.3	18.6	3.8	46.3	1.2	0.3	2.3	46.5	46.1
INTERNATIONAL AVG	.	13.7	13.9	41.4	16.3	14.7	41.4	3.5	2.7	8.4	40.5	42.2

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: E01 KEY: C
 Shown calendar, what date is three weeks after December 2? (Measurement, Estimation, & Number Sense)
 Difficulty: 501

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	17.8	10.1	65.5	5.1	1.6	65.5	0.0	0.6	1.0	67.7	63.1
Austria	936	11.3	11.8	67.2	7.4	2.4	67.2	0.0	0.2	2.1	67.9	66.4
Canada	2847	21.5	10.6	60.7	5.8	1.4	60.7	0.1	0.4	1.0	58.5	60.4
Cyprus	1239	23.0	20.1	42.7	9.3	4.8	42.7	0.3	1.2	3.3	40.2	45.0
Czech Republic	1227	10.9	14.9	63.0	6.6	4.7	63.0	0.9	0.6	3.2	63.3	62.6
England	1129	15.2	12.7	62.6	6.9	2.6	62.6	0.0	0.6	2.0	63.8	61.3
Greece	1124	16.0	21.8	46.5	10.0	5.8	46.5	0.4	0.1	5.2	48.4	44.7
Hong Kong	1633	21.5	12.4	58.2	6.1	1.8	58.2	0.3	0.0	1.5	59.6	57.4
Hungary	1138	16.9	16.9	52.9	6.8	6.6	52.9	0.0	2.2	4.3	52.3	54.1
Iceland	627	19.4	17.2	50.0	7.6	5.9	50.0	0.0	2.5	3.4	47.4	52.4
Iran, Islamic Rep.	1250	19.5	23.0	27.3	17.2	12.9	27.3	1.0	1.1	10.8	25.9	28.9
Ireland	1065	14.3	9.4	70.3	4.9	1.0	70.3	0.1	0.4	0.5	73.2	67.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	12.7	8.7	75.6	2.8	0.2	75.6	0.0	0.0	0.2	75.9	75.2
Korea	1031	18.0	9.3	69.4	3.1	0.1	69.4	0.0	0.0	0.1	67.9	70.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	18.5	12.9	50.8	11.4	6.3	50.8	0.0	1.0	5.3	53.9	47.6
Netherlands	1049	16.3	8.1	70.8	3.9	1.0	70.8	0.7	0.0	0.2	72.9	68.6
New Zealand	938	17.2	12.0	58.9	9.6	2.3	58.9	0.0	0.8	1.4	62.5	54.7
Norway	823	19.2	13.7	49.8	8.1	9.2	49.8	0.0	2.9	6.3	52.4	46.0
Portugal	993	24.8	11.2	37.7	10.3	16.0	37.7	0.0	4.9	11.1	37.5	38.0
Scotland	1193	14.3	13.6	64.3	6.0	1.7	64.3	0.2	0.3	1.3	65.2	63.0
Singapore	2645	14.2	14.6	64.4	5.9	1.0	64.4	0.0	0.0	1.0	62.7	65.9
Slovenia	940	14.8	12.6	63.6	5.5	3.5	63.6	0.2	0.6	2.7	64.7	62.6
Thailand	1157	22.5	20.4	40.7	15.0	1.4	40.7	0.0	0.3	1.2	43.7	37.4
United States	1397	24.3	10.8	60.0	3.6	1.3	60.0	0.0	0.2	1.1	58.6	61.3
INTERNATIONAL AVG	.	17.7	13.7	57.2	7.5	4.0	57.2	0.2	0.9	2.9	57.8	56.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: E02 KEY: B
 Which digit is in the hundreds place in 2345? (Whole Numbers)
 Difficulty: 461

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	13.1	66.2	7.0	11.1	2.6	66.2	0.0	0.6	2.0	65.9	66.6
Austria	936	14.2	68.2	4.3	6.6	6.7	68.2	1.4	0.2	5.0	66.6	69.7
Canada	2847	12.8	64.9	9.0	10.4	2.9	64.9	0.4	0.8	1.8	61.2	68.2
Cyprus	1239	23.5	50.7	8.5	9.5	7.8	50.7	1.1	1.5	5.2	49.2	52.1
Czech Republic	1227	11.0	71.0	4.6	5.3	8.2	71.0	2.1	1.0	5.0	70.9	71.1
England	1129	15.2	53.7	10.4	15.2	5.6	53.7	0.0	0.9	4.7	50.9	56.6
Greece	1124	23.0	46.1	5.1	11.3	14.4	46.1	1.2	0.5	12.7	41.7	50.6
Hong Kong	1633	17.9	74.0	6.0	1.1	0.9	74.0	0.2	0.0	0.8	77.2	71.7
Hungary	1138	11.1	70.1	3.9	6.7	8.2	70.1	0.0	3.6	4.7	72.5	69.6
Iceland	627	19.3	38.3	8.7	24.9	8.8	38.3	0.2	3.9	4.6	30.3	46.0
Iran, Islamic Rep.	1250	7.6	57.0	17.5	9.0	8.8	57.0	1.5	1.4	5.9	57.1	57.0
Ireland	1065	11.6	61.8	10.2	12.3	4.0	61.8	0.7	0.6	2.7	62.8	60.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	4.6	88.2	4.8	1.1	1.3	88.2	0.5	0.1	0.8	89.1	87.3
Korea	1031	7.6	90.2	2.0	0.2	0.1	90.2	0.0	0.0	0.1	90.3	90.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	17.5	56.1	6.7	9.4	10.4	56.1	0.0	1.9	8.4	54.9	57.3
Netherlands	1049	15.3	62.1	10.8	9.0	2.8	62.1	2.4	0.0	0.4	58.3	66.1
New Zealand	938	16.3	49.7	14.0	16.9	3.2	49.7	0.0	0.9	2.3	50.3	48.9
Norway	824	16.5	46.2	11.1	12.9	13.2	46.2	0.0	5.1	8.2	42.6	49.4
Portugal	993	5.2	59.2	15.0	6.0	14.6	59.2	0.0	6.3	8.4	58.5	59.9
Scotland	1193	21.0	48.9	12.3	13.2	4.6	48.9	0.6	0.4	3.6	45.0	53.1
Singapore	2645	2.9	92.5	2.6	1.4	0.5	92.5	0.0	0.0	0.5	93.4	91.7
Slovenia	940	22.6	55.7	7.3	6.6	7.8	55.7	0.6	0.9	6.4	51.3	59.8
Thailand	1157	8.2	70.8	14.0	6.4	0.5	70.8	0.0	0.3	0.3	72.3	69.4
United States	1397	11.9	75.6	5.7	4.5	2.3	75.6	0.1	0.3	1.9	74.7	76.5
INTERNATIONAL AVG	.	13.7	63.2	8.4	8.8	5.9	63.2	0.5	1.3	4.0	62.0	64.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: E03 KEY: D

Which of the following numbers would be rounded to 600 when rounded to the nearest hundred? (Measurement, Estimation, & Number Sense)

Difficulty: 520

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	4.4	6.2	2.8	64.1	19.1	3.4	64.1	0.0	0.7	2.7	61.1	67.2
Austria	936	4.1	8.1	6.2	41.1	33.7	6.8	41.1	0.0	0.3	6.5	37.1	45.8
Canada	2847	3.8	10.0	5.2	49.0	27.9	4.1	49.0	0.3	0.8	3.0	43.3	54.9
Cyprus	1237	8.9	12.4	5.7	25.4	34.7	13.0	25.4	0.6	1.6	10.8	24.9	26.0
Czech Republic	1226	2.4	3.9	3.5	63.4	19.5	7.3	63.4	1.5	1.2	4.6	59.8	67.2
England	1129	7.9	13.0	3.7	48.9	22.2	4.4	48.9	0.0	0.9	3.5	44.8	53.2
Greece	1124	3.1	9.3	3.9	30.6	39.5	13.5	30.6	1.1	0.8	11.6	28.3	32.9
Hong Kong	1631	1.8	2.9	1.0	69.8	22.4	2.2	69.8	0.5	0.1	1.6	70.7	69.2
Hungary	1139	1.9	4.8	3.2	68.8	13.1	8.1	68.8	0.0	4.1	4.0	66.0	72.7
Iceland	627	5.0	18.9	14.1	25.1	27.3	9.5	25.1	0.1	4.2	5.2	21.5	28.6
Iran, Islamic Rep.	1250	9.9	19.0	9.1	11.8	27.7	22.4	11.8	1.4	1.4	19.6	9.3	14.8
Ireland	1065	6.2	10.8	4.2	52.9	21.6	4.2	52.9	0.8	0.6	2.8	48.5	56.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	10.0	15.3	6.4	48.4	18.2	1.8	48.4	0.1	0.1	1.5	47.8	48.9
Korea	1031	0.7	1.1	0.8	91.5	5.9	0.0	91.5	0.0	0.0	0.0	90.4	92.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	4.3	11.3	4.3	44.7	23.5	11.9	44.7	0.0	1.9	10.0	46.4	42.9
Netherlands	1049	3.8	6.1	2.4	67.7	18.2	1.8	67.7	1.5	0.0	0.2	64.4	71.0
New Zealand	938	5.6	14.1	5.5	44.2	27.5	3.0	44.2	0.0	0.9	2.1	42.5	46.3
Norway	824	4.1	13.0	6.5	37.6	23.4	15.3	37.6	0.8	5.9	8.6	29.5	44.1
Portugal	994	4.0	5.4	2.8	49.5	21.5	16.8	49.5	0.0	6.8	10.0	47.4	51.7
Scotland	1193	4.3	9.8	3.9	57.2	22.1	2.7	57.2	0.3	0.4	1.9	52.6	62.3
Singapore	2645	5.8	8.5	3.9	58.7	22.0	1.1	58.7	0.0	0.0	1.1	57.6	59.6
Slovenia	940	4.7	9.4	1.9	53.9	22.8	7.2	53.9	0.4	1.1	5.7	51.2	56.6
Thailand	1157	7.6	11.2	4.4	35.3	40.6	0.9	35.3	0.0	0.3	0.7	35.2	35.4
United States	1437	4.6	8.3	4.8	64.6	16.5	1.2	64.6	0.1	0.3	0.9	61.9	67.1
INTERNATIONAL AVG	.	5.0	9.7	4.6	50.2	23.8	6.8	50.2	0.4	1.4	4.9	47.6	52.8

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: E04 KEY: C
 Which of the following numbers means 7/10? (Fractions and Proportionality)
 Difficulty: 650

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	46.3	13.8	26.5	9.6	3.8	26.5	0.0	0.8	3.0	25.4	27.7
Austria	936	49.0	12.7	18.2	10.0	10.0	18.2	0.5	0.4	9.2	15.4	21.3
Canada	2847	44.2	11.3	30.7	9.2	4.7	30.7	0.3	1.3	3.1	35.6	26.7
Cyprus	1237	48.3	16.7	16.2	8.7	10.1	16.2	0.3	1.6	8.2	16.5	15.9
Czech Republic	1226	50.0	10.6	16.5	8.1	14.8	16.5	2.1	1.4	11.2	17.0	16.0
England	1129	51.0	12.8	17.7	14.2	4.3	17.7	0.0	1.0	3.3	17.2	18.3
Greece	1124	43.1	14.4	17.0	8.1	17.3	17.0	0.9	1.1	15.3	14.4	19.7
Hong Kong	1631	26.5	39.9	23.8	8.4	1.3	23.8	0.0	0.1	1.2	20.5	26.4
Hungary	1139	52.9	13.2	15.1	5.5	13.3	15.1	0.0	4.6	8.7	16.0	14.0
Iceland	627	50.0	13.5	15.6	9.7	11.1	15.6	0.2	4.7	6.2	14.1	17.0
Iran, Islamic Rep.	1250	43.6	15.4	15.5	9.5	16.0	15.5	0.8	1.7	13.6	13.2	18.3
Ireland	1065	43.5	9.9	34.7	9.4	2.5	34.7	0.3	0.8	1.4	34.6	34.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	20.7	12.3	63.4	2.8	0.8	63.4	0.1	0.1	0.5	61.9	64.9
Korea	1031	22.6	13.3	59.8	4.4	0.0	59.8	0.0	0.0	0.0	54.4	64.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	760	51.1	15.4	13.7	4.8	15.0	13.7	0.0	1.9	13.1	16.0	11.4
Netherlands	1049	56.0	4.9	19.5	17.6	2.1	19.5	1.8	0.0	0.2	20.2	18.7
New Zealand	938	49.0	16.7	17.6	12.7	4.0	17.6	0.0	0.9	3.1	15.9	19.6
Norway	824	46.6	14.1	11.3	10.9	17.1	11.3	1.6	6.6	8.9	12.5	10.5
Portugal	994	33.2	15.6	27.4	7.9	15.9	27.4	0.0	7.1	8.8	24.4	30.3
Scotland	1193	50.5	14.0	15.5	15.0	5.0	15.5	0.5	0.4	4.1	14.8	16.5
Singapore	2645	24.6	32.0	29.1	13.1	1.2	29.1	0.0	0.0	1.2	26.1	31.8
Slovenia	940	62.1	9.3	11.3	6.0	11.4	11.3	0.2	1.1	10.1	10.3	12.3
Thailand	1157	56.6	20.1	13.1	9.0	1.1	13.1	0.0	0.5	0.6	11.6	14.8
United States	1437	43.4	10.8	28.1	14.0	3.7	28.1	0.1	0.3	3.3	27.4	28.7
INTERNATIONAL AVG	.	44.4	15.1	23.2	9.5	7.8	23.2	0.4	1.6	5.8	22.3	24.2

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: F05 KEY: B
 Shown temperature chart, when was the highest temperature recorded? (Data Rep., Analysis and Probability)
 Difficulty: 488

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	16.5	68.8	5.2	5.1	4.5	68.8	0.0	0.7	3.8	66.6	71.1
Austria	950	13.7	67.5	4.2	9.4	5.2	67.5	0.3	0.7	4.1	70.4	65.3
Canada	2850	17.8	66.8	6.1	6.1	3.2	66.8	0.2	0.3	2.7	67.8	66.6
Cyprus	1219	25.4	50.3	6.2	7.7	10.4	50.3	0.8	2.4	7.2	50.1	50.9
Czech Republic	1233	9.8	65.3	2.4	9.5	13.1	65.3	6.2	1.5	5.5	66.1	64.4
England	1134	17.9	65.5	6.5	6.3	3.8	65.5	0.0	0.6	3.2	62.0	68.9
Greece	1115	29.3	36.4	10.2	7.6	16.5	36.4	1.5	1.2	13.8	34.4	38.4
Hong Kong	1644	14.8	72.4	3.2	6.0	3.7	72.4	0.3	0.0	3.3	71.4	73.3
Hungary	1134	11.6	67.5	3.9	7.6	9.5	67.5	0.0	3.9	5.6	71.1	64.5
Iceland	631	23.3	48.6	12.0	7.9	8.3	48.6	0.3	3.4	4.6	46.0	51.3
Iran, Islamic Rep.	1260	16.2	26.1	16.4	21.9	19.3	26.1	1.9	2.8	14.7	25.1	27.3
Ireland	1083	18.1	61.9	7.3	8.2	4.5	61.9	1.9	0.6	2.0	64.9	59.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	12.9	81.4	3.0	1.5	1.1	81.4	0.1	0.2	0.8	80.4	82.4
Korea	1047	10.9	85.0	1.6	2.4	0.2	85.0	0.0	0.0	0.2	85.8	84.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	13.1	47.3	7.8	19.8	12.0	47.3	0.0	0.7	11.3	46.3	48.3
Netherlands	1048	15.4	64.7	7.1	10.8	2.0	64.7	1.9	0.0	0.1	64.2	64.7
New Zealand	943	21.9	57.6	7.5	9.7	3.3	57.6	0.0	1.0	2.3	59.0	56.1
Norway	815	12.6	58.2	6.4	9.0	13.8	58.2	1.1	4.3	8.5	57.5	58.9
Portugal	996	25.9	35.5	7.2	12.7	18.8	35.5	0.0	4.9	13.9	34.0	37.0
Scotland	1180	19.7	63.8	7.4	6.5	2.5	63.8	0.4	0.5	1.7	64.8	63.0
Singapore	2623	20.2	64.4	8.2	6.1	1.1	64.4	0.0	0.1	1.0	65.5	63.3
Slovenia	955	16.4	65.7	4.6	7.8	5.5	65.7	0.5	0.4	4.6	66.6	64.8
Thailand	1117	16.3	45.6	12.8	23.0	2.3	45.6	0.0	0.0	2.3	46.2	44.9
United States	1438	18.8	70.0	5.9	3.2	2.2	70.0	0.1	0.1	2.0	72.5	67.7
INTERNATIONAL AVG	.	17.4	59.8	6.8	9.0	7.0	59.8	0.7	1.3	5.0	60.0	59.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: F06 KEY: D
 Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains? (Fractions and Proportionality)
 Difficulty: 521

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	11.0	15.5	8.9	61.4	3.2	61.4	0.0	0.9	2.3	62.0	60.7
Austria	950	8.6	16.6	6.4	60.5	7.9	60.5	0.1	1.0	6.8	59.7	61.7
Canada	2850	16.3	20.1	8.1	51.2	4.3	51.2	0.5	0.7	3.2	52.2	49.5
Cyprus	1219	20.7	16.5	8.0	44.4	10.4	44.4	0.5	3.3	6.7	43.4	45.2
Czech Republic	1233	9.9	13.4	5.1	58.7	12.9	58.7	0.5	2.0	10.4	63.0	54.2
England	1134	8.3	16.3	8.0	64.4	3.1	64.4	0.0	1.0	2.1	63.5	65.2
Greece	1115	14.3	11.5	6.1	48.8	19.4	48.8	0.3	1.4	17.7	45.2	52.4
Hong Kong	1644	17.7	15.5	18.0	46.2	2.7	46.2	0.3	0.0	2.5	42.8	48.7
Hungary	1134	13.4	12.7	5.4	55.3	13.2	55.3	0.0	5.1	8.1	55.6	55.1
Iceland	631	13.0	15.7	7.7	54.9	8.7	54.9	0.0	4.4	4.3	55.0	54.7
Iran, Islamic Rep.	1260	17.4	15.6	8.0	40.6	18.4	40.6	1.3	3.3	13.8	44.1	36.5
Ireland	1083	7.9	9.7	7.9	72.0	2.3	72.0	0.5	0.6	1.2	73.6	70.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	18.2	28.3	16.3	35.7	1.5	35.7	0.2	0.5	0.8	37.8	33.6
Korea	1047	18.2	29.1	13.6	39.0	0.2	39.0	0.0	0.0	0.2	37.1	40.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	14.4	11.1	4.6	60.1	9.7	60.1	0.0	1.1	8.5	60.7	59.6
Netherlands	1048	13.5	23.5	7.7	53.8	1.5	53.8	1.4	0.0	0.1	53.1	54.4
New Zealand	943	9.9	15.0	10.0	61.8	3.2	61.8	0.0	1.4	1.9	64.1	59.3
Norway	815	11.6	19.6	8.1	45.3	15.3	45.3	0.1	4.7	10.6	45.7	44.3
Portugal	996	13.9	15.1	8.0	44.8	18.2	44.8	0.0	6.3	11.9	45.3	44.3
Scotland	1180	9.8	15.8	8.5	63.2	2.7	63.2	0.2	0.6	1.8	65.7	60.4
Singapore	2623	10.9	9.2	11.2	68.0	0.7	68.0	0.0	0.1	0.6	69.5	66.4
Slovenia	955	9.2	11.2	4.1	66.6	8.9	66.6	0.2	0.6	8.1	69.0	64.2
Thailand	1117	18.2	21.2	11.2	47.4	2.0	47.4	0.0	0.0	2.0	52.2	42.4
United States	1438	16.2	19.7	9.1	52.5	2.6	52.5	0.0	0.1	2.5	56.0	49.0
INTERNATIONAL AVG	.	13.4	16.6	8.8	54.0	7.2	54.0	0.3	1.6	5.3	54.8	53.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: F07 KEY: B
 What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands? (Whole Numbers)
 Difficulty: 519

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	12.7	56.6	6.0	13.9	7.9	3.0	56.6	0.0	1.0	2.0	52.7	60.7
Austria	950	6.9	66.1	3.8	11.8	7.6	3.9	66.1	0.1	1.1	2.7	64.8	67.1
Canada	2850	13.5	54.0	4.6	16.0	9.0	2.9	54.0	0.1	0.7	2.1	51.0	59.6
Cyprus	1219	12.1	51.5	5.7	17.5	4.3	8.8	51.5	0.1	3.4	5.4	49.1	53.8
Czech Republic	1233	9.0	65.3	3.1	9.6	6.3	6.8	65.3	0.5	2.7	3.6	62.6	68.1
England	1134	14.4	41.4	9.0	14.7	15.8	4.7	41.4	0.0	1.1	3.6	37.7	45.0
Greece	1115	10.5	47.6	4.0	17.8	7.0	13.2	47.6	1.4	1.6	10.1	46.2	48.9
Hong Kong	1644	13.2	42.7	13.7	14.0	11.1	5.4	42.7	0.2	0.0	5.2	37.7	46.8
Hungary	1134	17.7	59.0	3.0	11.9	0.7	7.7	59.0	0.0	5.5	2.2	57.9	60.5
Iceland	631	16.0	43.7	7.5	13.1	10.3	9.5	43.7	0.0	5.8	3.6	39.7	48.0
Iran, Islamic Rep.	1260	19.5	47.6	4.8	7.6	6.7	13.8	47.6	2.2	3.5	8.0	47.4	47.8
Ireland	1083	13.3	45.8	4.8	26.0	7.5	2.5	45.8	0.2	0.6	1.6	43.6	47.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	15.0	73.3	3.6	5.5	1.5	1.2	73.3	0.0	0.6	0.6	69.6	77.1
Korea	1047	26.6	62.2	4.1	5.8	1.3	0.0	62.2	0.0	0.0	0.0	59.9	64.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	11.1	58.0	4.8	13.6	7.6	4.9	58.0	0.0	1.1	3.8	58.8	57.1
Netherlands	1048	12.0	51.8	9.5	13.6	11.8	1.4	51.8	1.3	0.0	0.1	49.1	54.1
New Zealand	943	12.4	41.8	6.7	17.3	18.1	3.7	41.8	0.0	1.8	1.9	40.4	43.3
Norway	815	12.6	42.1	7.6	12.7	12.3	12.7	42.1	0.0	5.1	7.5	37.0	45.9
Portugal	996	11.5	40.0	3.3	27.3	5.2	12.7	40.0	0.0	6.4	6.3	36.7	43.5
Scotland	1180	16.9	42.4	7.9	15.3	14.2	3.3	42.4	0.1	0.9	2.3	41.0	43.7
Singapore	2623	12.2	73.9	2.6	6.4	4.3	0.6	73.9	0.0	0.1	0.5	73.0	74.7
Slovenia	955	9.1	58.7	6.8	13.0	4.6	7.7	58.7	0.6	0.9	6.2	56.8	60.6
Thailand	1117	22.1	39.0	8.5	20.7	7.4	2.2	39.0	0.0	0.0	2.2	39.4	38.6
United States	1438	14.7	59.0	3.2	15.7	4.8	2.6	59.0	0.0	0.1	2.5	55.5	62.3
INTERNATIONAL AVG	.	14.0	52.7	5.8	14.2	7.8	5.6	52.7	0.3	1.8	3.5	50.3	55.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: F08 KEY: C

Which units would be best to measure the weight (mass) of an egg? (Measurement, Estimation, & Number Sense)

Difficulty: 515

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	13.1	8.3	54.3	21.7	2.6	54.3	0.0	1.1	1.4	52.1	56.7
Austria	950	9.8	8.1	53.5	22.2	6.5	53.5	0.5	1.3	4.7	57.0	50.2
Canada	2850	35.3	12.6	33.7	15.3	3.1	33.7	0.1	0.9	2.2	30.0	36.3
Cyprus	1219	13.4	9.4	57.2	10.0	10.0	57.2	0.1	3.9	6.0	59.2	55.1
Czech Republic	1233	14.9	9.6	55.4	13.3	6.8	55.4	0.8	3.0	3.0	49.8	61.4
England	1134	15.2	9.7	51.8	19.9	3.4	51.8	0.0	1.1	2.3	46.0	57.5
Greece	1115	11.5	5.0	51.2	21.6	10.6	51.2	0.5	1.7	8.4	47.5	54.9
Hong Kong	1644	13.4	14.0	64.1	6.8	1.7	64.1	0.6	0.0	1.0	62.1	65.4
Hungary	1134	14.7	7.6	53.4	13.5	10.8	53.4	0.0	5.7	5.1	52.0	56.1
Iceland	631	14.5	11.7	36.4	27.1	10.4	36.4	0.0	5.8	4.6	34.2	38.8
Iran, Islamic Rep.	1260	11.8	12.7	39.6	25.0	11.0	39.6	0.9	3.6	6.4	36.2	43.8
Ireland	1083	12.3	10.0	46.6	27.5	3.6	46.6	0.4	0.8	2.4	45.7	47.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	4.4	2.8	84.2	7.5	1.1	84.2	0.1	0.6	0.4	85.7	82.7
Korea	1047	15.1	5.1	64.3	15.4	0.2	64.3	0.0	0.0	0.2	61.7	66.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	13.5	3.4	55.5	21.5	6.0	55.5	0.0	1.3	4.7	54.7	56.4
Netherlands	1048	5.5	8.0	71.5	13.8	1.2	71.5	1.2	0.0	0.0	70.1	72.8
New Zealand	943	14.9	11.6	42.7	27.1	3.6	42.7	0.0	1.8	1.8	43.7	41.7
Norway	815	11.3	10.8	50.2	14.4	13.4	50.2	0.1	5.8	7.4	45.8	54.0
Portugal	996	7.2	5.1	49.1	24.5	14.1	49.1	0.0	6.7	7.3	45.4	53.0
Scotland	1180	18.7	9.8	42.4	26.1	3.0	42.4	0.4	1.0	1.6	38.7	46.3
Singapore	2623	11.0	5.3	67.6	15.0	1.0	67.6	0.0	0.1	0.9	70.1	65.2
Slovenia	955	9.2	8.8	56.4	20.8	4.7	56.4	0.3	1.6	2.8	54.1	58.7
Thailand	1117	8.9	12.3	38.1	38.1	2.5	38.1	0.0	0.0	2.5	37.2	39.0
United States	1438	21.5	15.6	44.5	14.5	3.9	44.5	0.2	0.2	3.5	45.0	44.1
INTERNATIONAL AVG	.	13.4	9.0	52.7	19.3	5.6	52.7	0.3	2.0	3.4	51.0	54.3

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: F09 KEY: A
 Which of the following must be true of a triangle? (Geometry)
 Difficulty: 474

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	69.0	7.9	11.8	6.7	4.7	69.0	0.0	1.4	3.3	72.1	65.7
Austria	950	57.2	16.0	11.0	10.1	5.7	57.2	0.6	1.4	3.7	58.3	56.1
Canada	2850	62.5	10.4	14.5	8.1	4.5	62.5	1.1	1.0	2.5	67.8	58.3
Cyprus	1219	51.9	11.1	15.3	11.9	9.7	51.9	1.0	4.1	4.6	51.3	53.0
Czech Republic	1233	61.6	5.9	13.6	10.6	8.3	61.6	1.6	3.2	3.5	60.5	62.8
England	1134	70.7	8.6	10.1	6.6	4.0	70.7	0.0	1.1	2.9	70.5	70.9
Greece	1115	61.4	6.5	11.1	10.6	10.3	61.4	1.2	1.8	7.3	57.0	65.9
Hong Kong	1644	67.7	7.4	11.0	10.2	3.8	67.7	1.9	0.0	1.9	69.1	66.5
Hungary	1133	45.2	6.8	11.4	17.4	19.1	45.2	0.0	5.9	13.2	47.4	43.9
Iceland	631	60.0	6.5	10.1	12.5	10.8	60.0	0.2	6.6	4.0	61.7	58.2
Iran, Islamic Rep.	1260	51.5	7.8	17.7	8.9	14.1	51.5	1.0	4.1	9.0	53.6	48.8
Ireland	1083	67.0	9.6	11.5	7.5	4.4	67.0	1.0	0.9	2.5	69.3	65.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	58.6	8.9	16.4	9.8	6.2	58.6	4.8	0.6	0.9	60.2	57.0
Korea	1047	84.7	3.1	6.4	5.7	0.1	84.7	0.0	0.0	0.1	84.0	85.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	63.0	7.7	12.2	11.6	5.5	63.0	0.0	1.3	4.2	62.1	63.9
Netherlands	1048	71.0	5.3	12.3	9.6	1.8	71.0	1.7	0.0	0.1	70.0	72.2
New Zealand	943	69.4	5.9	10.5	9.5	4.8	69.4	0.0	2.1	2.7	72.7	65.7
Norway	815	53.4	7.6	16.7	10.1	12.3	53.4	0.0	6.4	5.9	55.4	52.6
Portugal	996	66.3	4.5	10.1	5.7	13.4	66.3	0.0	7.2	6.2	69.0	63.4
Scotland	1180	68.1	10.5	9.4	7.9	4.1	68.1	1.3	1.0	1.8	67.6	68.6
Singapore	2623	76.2	8.2	7.3	6.7	1.7	76.2	0.0	0.1	1.6	79.1	73.4
Slovenia	955	68.5	3.2	11.6	11.9	4.7	68.5	0.5	2.0	2.2	71.4	65.7
Thailand	1117	57.5	10.1	13.3	16.0	3.1	57.5	0.0	0.0	3.1	57.0	58.0
United States	1438	64.3	10.0	15.0	5.9	4.8	64.3	0.2	0.2	4.4	66.1	62.6
INTERNATIONAL AVG	.	63.6	7.9	12.1	9.6	6.8	63.6	0.8	2.2	3.8	64.7	62.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: G01 KEY: C
 Given map and legend, how far apart are two cities? (Fractions and Proportionality)
 Difficulty: 628

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	20.7	32.6	32.7	12.2	1.7	32.7	0.0	0.2	1.4	29.4	36.3
Austria	950	22.0	22.6	41.3	9.9	4.1	41.3	0.2	0.1	3.8	33.9	48.0
Canada	2857	25.5	29.2	28.5	14.1	2.7	28.5	0.2	0.6	1.9	26.3	28.7
Cyprus	1245	35.7	26.5	22.7	8.1	7.0	22.7	0.1	0.9	6.0	19.2	26.3
Czech Republic	1225	21.1	21.9	41.9	8.4	6.7	41.9	1.7	0.6	4.4	35.4	48.4
England	1156	24.5	31.4	28.6	12.6	2.8	28.6	0.0	0.5	2.4	27.5	29.7
Greece	1117	19.4	20.7	27.5	18.9	13.6	27.5	0.7	0.5	12.4	24.8	30.4
Hong Kong	1640	19.5	34.5	37.4	6.5	2.1	37.4	0.3	0.0	1.8	34.0	40.5
Hungary	1144	19.7	27.2	28.6	15.8	8.8	28.6	0.0	1.9	6.8	25.4	31.2
Iceland	638	29.1	26.3	25.9	12.7	6.0	25.9	0.0	2.8	3.2	24.0	27.9
Iran, Islamic Rep.	1258	28.8	19.4	16.3	15.7	19.9	16.3	2.5	1.2	16.2	15.3	17.4
Ireland	1095	24.7	30.9	30.2	12.2	1.9	30.2	0.4	0.2	1.3	24.5	35.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	12.5	36.0	45.7	4.9	1.0	45.7	0.2	0.2	0.6	42.3	48.9
Korea	1041	15.3	39.6	40.1	4.7	0.4	40.1	0.0	0.0	0.4	36.5	43.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Netherlands	1053	17.9	31.7	38.1	11.5	0.9	38.1	0.9	0.0	0.0	33.6	41.9
New Zealand	930	24.5	28.6	29.1	15.0	2.9	29.1	0.0	1.3	1.6	27.7	30.9
Norway	831	20.9	27.3	28.7	13.6	9.5	28.7	0.1	2.6	6.8	25.5	31.9
Portugal	998	23.5	23.3	20.9	12.1	20.2	20.9	0.0	2.0	18.2	19.4	22.4
Scotland	1173	25.4	34.1	27.6	10.4	2.4	27.6	0.3	0.2	1.9	25.2	29.9
Singapore	2642	22.8	29.2	37.9	8.9	1.2	37.9	0.0	0.0	1.2	32.9	42.3
Slovenia	941	19.6	27.0	36.1	13.3	4.0	36.1	0.0	0.0	4.0	34.0	38.0
Thailand	1059	43.8	25.4	21.7	8.1	1.1	21.7	0.0	0.0	1.1	19.5	23.9
United States	1445	31.9	34.7	22.4	9.3	1.6	22.4	0.1	0.0	1.4	17.6	27.1
INTERNATIONAL AVG	.	23.9	28.7	30.9	11.3	5.3	30.9	0.3	0.7	4.3	27.6	33.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: G02 KEY: C

Which of the following could be the weight (mass) of an adult? (Measurement, Estimation, & Number Sense)

Difficulty: 471

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	2.9	13.3	70.0	12.2	1.6	70.0	0.0	0.3	1.3	71.6	68.4
Austria	950	2.5	4.4	85.5	5.3	2.3	85.5	0.0	0.2	2.1	83.1	87.5
Canada	2857	4.3	12.9	51.1	28.9	2.8	51.1	0.0	0.6	2.1	48.3	53.3
Cyprus	1245	5.4	19.5	51.2	14.9	9.0	51.2	0.0	1.3	7.7	50.1	52.3
Czech Republic	1225	0.9	4.5	84.5	6.3	3.9	84.5	0.5	1.3	2.0	83.2	85.7
England	1156	5.3	26.1	46.4	19.4	2.7	46.4	0.0	0.6	2.1	46.1	46.7
Greece	1117	2.9	5.4	70.0	14.9	6.8	70.0	0.2	1.0	5.7	68.0	72.1
Hong Kong	1640	7.3	13.0	67.0	11.1	1.6	67.0	0.1	0.0	1.4	66.6	67.4
Hungary	1144	5.0	7.6	75.3	5.7	6.3	75.3	0.0	3.1	3.2	72.4	78.7
Iceland	638	2.2	7.4	69.8	14.9	5.7	69.8	0.0	3.7	2.0	69.3	70.2
Iran, Islamic Rep.	1258	13.2	13.6	37.5	24.0	11.8	37.5	1.2	1.9	8.8	34.5	41.0
Ireland	1095	4.2	24.3	48.1	21.2	2.1	48.1	0.2	0.2	1.7	48.5	47.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	2.1	4.3	86.2	6.8	0.6	86.2	0.0	0.2	0.4	87.0	85.3
Korea	1041	6.6	6.4	82.1	4.5	0.3	82.1	0.0	0.0	0.3	81.6	82.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Netherlands	1053	2.1	6.7	84.3	5.7	1.1	84.3	1.1	0.0	0.0	84.2	84.0
New Zealand	930	4.0	18.7	61.1	13.3	2.9	61.1	0.0	1.9	1.0	63.3	58.7
Norway	831	1.5	4.5	78.6	9.6	5.9	78.6	0.0	3.1	2.8	76.1	80.3
Portugal	998	7.6	11.2	56.5	9.4	15.2	56.5	0.0	3.6	11.6	55.4	57.6
Scotland	1173	3.2	23.4	50.5	19.8	3.1	50.5	0.2	0.7	2.2	50.1	50.6
Singapore	2642	8.6	12.7	69.1	8.9	0.7	69.1	0.0	0.0	0.7	71.3	67.2
Slovenia	941	6.8	16.7	66.9	6.2	3.4	66.9	0.1	0.5	2.8	61.3	72.2
Thailand	1059	7.8	10.4	68.7	11.6	1.5	68.7	0.0	0.1	1.4	70.7	66.7
United States	1445	9.5	20.4	43.6	23.8	2.6	43.6	0.1	0.1	2.4	46.5	40.9
INTERNATIONAL AVG	.	5.0	12.5	65.4	13.0	4.1	65.4	0.2	1.1	2.9	64.7	66.0

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: G03 KEY: B
 Which of the following is a name for 9740? (Whole Numbers)
 Difficulty: 350

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	3.9	86.6	4.7	3.1	1.7	86.6	0.0	0.3	1.3	86.6	86.6
Austria	950	2.1	91.5	2.5	1.7	2.2	91.5	0.0	0.3	1.8	92.4	90.6
Canada	2857	7.0	79.3	7.8	4.4	1.5	79.3	0.0	0.7	0.8	77.7	81.4
Cyprus	1245	4.3	77.9	8.8	5.0	4.1	77.9	0.3	1.4	2.3	80.7	74.9
Czech Republic	1225	3.7	87.7	2.4	3.0	3.2	87.7	0.2	1.5	1.4	87.3	88.1
England	1156	6.6	77.0	7.4	6.4	2.6	77.0	0.0	0.6	2.0	77.9	76.1
Greece	1117	6.1	73.9	5.3	8.7	5.9	73.9	0.4	1.0	4.6	75.1	72.7
Hong Kong	1640	1.2	93.9	2.5	0.5	1.9	93.9	0.2	0.0	1.7	94.8	93.1
Hungary	1144	2.5	87.5	1.8	1.8	6.4	87.5	0.0	3.4	3.0	88.2	86.8
Iceland	638	9.9	66.3	8.8	8.2	6.6	66.3	0.2	4.4	2.1	64.1	68.6
Iran, Islamic Rep.	1258	6.7	66.9	6.3	9.9	10.3	66.9	2.6	2.0	5.7	66.6	67.3
Ireland	1095	4.6	86.1	5.0	3.0	1.3	86.1	0.3	0.2	0.8	87.1	85.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	.	.	.	.	.	.	.	.	.	.	.	.
Korea	1041	0.9	98.0	0.7	0.3	0.1	98.0	0.0	0.0	0.1	97.4	98.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	759	4.9	78.4	6.4	5.0	5.3	78.4	0.0	0.4	4.9	76.7	80.2
Netherlands	1053	3.9	82.1	7.2	5.8	1.0	82.1	1.0	0.0	0.1	81.3	82.4
New Zealand	930	5.7	76.0	8.3	6.5	3.5	76.0	0.0	1.9	1.7	79.4	71.9
Norway	831	6.7	78.9	3.3	5.1	6.1	78.9	0.0	3.4	2.7	76.5	81.2
Portugal	998	3.5	78.6	4.5	5.9	7.5	78.6	0.0	3.7	3.8	77.1	80.1
Scotland	1173	6.7	78.5	6.6	4.7	3.5	78.5	0.1	0.8	2.6	79.5	77.5
Singapore	2642	1.3	95.4	1.6	0.9	0.7	95.4	0.0	0.0	0.7	96.2	94.8
Slovenia	941	5.5	75.8	7.9	6.0	4.7	75.8	0.2	0.5	4.0	74.5	77.0
Thailand	1059	2.6	89.3	4.4	2.3	1.5	89.3	0.0	0.1	1.3	89.5	89.0
United States	1445	5.0	85.7	5.8	2.2	1.4	85.7	0.0	0.1	1.2	88.6	82.9
INTERNATIONAL AVG	.	4.6	82.2	5.2	4.4	3.6	82.2	0.2	1.2	2.2	82.4	82.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: G04 KEY: B

Given symbol for number of magazines read in a week, select expression for number read in 6 weeks. (Patterns, Relations and Functions)

Difficulty: 575

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	13.9	43.5	13.6	16.4	12.7	43.5	0.0	0.3	12.3	41.2	45.9
Austria	950	11.8	48.6	10.7	11.5	17.3	48.6	0.2	0.3	16.9	46.6	50.4
Canada	2857	13.2	40.2	12.5	23.9	10.2	40.2	1.1	0.7	8.4	39.0	41.2
Cyprus	1245	12.5	44.2	8.8	19.4	15.1	44.2	0.1	1.4	13.7	44.1	44.2
Czech Republic	1225	11.6	46.6	6.2	13.2	22.4	46.6	3.7	1.6	17.1	47.0	46.3
England	1156	12.7	31.8	15.6	26.0	14.0	31.8	0.0	0.7	13.3	30.3	33.3
Greece	1117	10.3	28.7	8.8	17.4	34.9	28.7	1.9	1.0	32.0	24.4	33.2
Hong Kong	1640	6.1	44.4	6.1	19.1	24.2	44.4	0.1	0.0	24.1	43.8	45.1
Hungary	1144	14.6	40.6	12.1	18.3	14.4	40.6	0.0	3.6	10.8	41.0	40.6
Iceland	638	20.7	23.4	16.5	20.0	19.4	23.4	0.2	4.7	14.5	18.6	28.3
Iran, Islamic Rep.	1258	10.6	27.9	9.9	22.9	28.7	27.9	0.7	2.0	26.0	26.7	29.3
Ireland	1095	11.8	44.5	10.5	18.5	14.7	44.5	5.6	0.2	9.0	45.6	43.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	8.1	61.3	6.3	21.2	3.1	61.3	0.1	0.4	2.6	63.3	59.3
Korea	1041	6.1	65.0	4.9	20.6	3.3	65.0	0.0	0.0	3.3	62.7	67.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	759	12.3	44.5	5.2	19.0	19.1	44.5	0.0	1.6	17.5	44.7	44.2
Netherlands	1053	14.8	44.6	18.1	18.8	3.8	44.6	3.8	0.0	0.0	45.0	44.0
New Zealand	930	17.1	32.4	16.0	23.8	10.7	32.4	0.0	1.9	8.8	34.2	30.4
Norway	831	12.7	28.4	13.6	22.2	23.1	28.4	0.1	3.7	19.3	23.8	32.8
Portugal	998	9.9	34.6	6.7	12.2	36.6	34.6	0.0	4.4	32.2	33.4	35.7
Scotland	1173	12.3	37.7	12.8	25.6	11.7	37.7	0.2	1.5	10.1	33.5	41.8
Singapore	2642	5.7	65.7	5.7	17.7	5.2	65.7	0.0	0.0	5.2	64.1	67.2
Slovenia	941	9.0	50.7	5.6	11.0	23.7	50.7	0.5	0.9	22.4	52.8	48.7
Thailand	1059	18.1	34.6	14.5	26.9	5.9	34.6	0.0	0.1	5.8	32.9	36.3
United States	1445	17.4	46.5	10.1	19.1	6.9	46.5	0.1	0.1	6.7	46.0	47.0
INTERNATIONAL AVG	.	12.2	42.1	10.4	19.4	15.9	42.1	0.8	1.3	13.8	41.0	43.2

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: H05 KEY: A
 Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned? (Geometry)
 Difficulty: 580

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	41.3	28.2	21.3	4.8	4.4	41.3	0.0	0.5	3.9	41.7	40.8
Austria	937	55.6	19.1	15.4	3.5	6.4	55.6	1.7	0.2	4.5	52.3	58.7
Canada	2827	39.0	23.2	29.0	5.6	3.2	39.0	0.9	0.6	1.7	38.9	38.7
Cyprus	1238	34.3	27.5	22.4	5.9	9.9	34.3	0.9	1.5	7.6	36.8	31.5
Czech Republic	1212	50.9	20.3	17.5	3.7	7.5	50.9	2.9	1.4	3.2	49.7	52.2
England	1116	43.5	24.3	20.1	7.6	4.4	43.5	0.0	0.4	4.1	43.6	43.3
Greece	1103	51.1	21.5	12.4	3.1	11.9	51.1	0.8	1.2	10.0	53.4	48.9
Hong Kong	1647	35.3	20.9	27.4	11.1	5.3	35.3	1.4	0.0	3.9	31.1	38.5
Hungary	1132	39.9	17.0	18.9	13.5	10.8	39.9	0.0	2.1	8.7	38.7	40.7
Iceland	629	45.5	17.9	24.6	2.7	9.2	45.5	0.8	4.1	4.3	43.4	47.6
Iran, Islamic Rep.	1254	33.5	27.2	21.0	6.6	11.8	33.5	1.7	1.1	9.0	33.0	34.1
Ireland	1089	39.9	27.2	23.8	6.8	2.3	39.9	0.8	0.1	1.3	42.3	38.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	39.1	23.3	34.8	0.9	1.9	39.1	0.7	0.1	1.2	33.8	44.3
Korea	1042	44.5	26.3	28.2	0.5	0.5	44.5	0.0	0.0	0.5	35.2	52.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	59.0	17.3	13.9	6.3	3.4	59.0	0.0	0.8	2.6	59.9	58.0
Netherlands	1070	35.1	21.5	36.4	4.1	2.9	35.1	2.9	0.0	0.0	34.4	36.0
New Zealand	940	38.2	26.1	25.1	7.9	2.7	38.2	0.0	0.6	2.1	38.6	37.6
Norway	824	57.2	16.7	12.4	3.2	10.5	57.2	0.2	3.1	7.2	58.7	56.9
Portugal	973	28.3	33.2	18.7	6.8	13.1	28.3	0.0	4.1	9.0	27.1	29.4
Scotland	1163	49.0	21.7	19.5	6.1	3.6	49.0	0.7	0.5	2.4	49.8	48.2
Singapore	2648	43.1	22.2	26.4	5.9	2.4	43.1	0.0	0.0	2.4	43.1	43.1
Slovenia	943	54.0	22.7	17.3	2.2	3.8	54.0	1.0	0.8	2.0	49.2	58.6
Thailand	1006	18.5	34.2	33.6	11.2	2.4	18.5	0.1	0.4	2.0	17.7	19.5
United States	1434	39.0	24.8	26.3	6.5	3.4	39.0	0.6	0.2	2.6	40.4	37.8
INTERNATIONAL AVG	.	42.3	23.5	22.8	5.7	5.8	42.3	0.8	1.0	4.0	41.4	43.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: H06 KEY: D
 Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle? (Measurement, Estimation, & Number Sense)
 Difficulty: 569

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	24.1	20.0	7.0	42.3	6.5	42.3	0.0	0.8	5.8	38.3	46.4
Austria	937	10.5	9.7	10.2	66.2	3.4	66.2	0.3	0.3	2.9	63.6	68.9
Canada	2827	23.4	23.2	6.1	42.0	5.3	42.0	0.3	0.8	4.2	41.0	44.0
Cyprus	1238	16.8	19.1	5.4	51.6	7.1	51.6	1.1	2.0	4.0	50.0	53.1
Czech Republic	1212	25.2	14.3	4.7	48.5	7.3	48.5	1.2	1.8	4.3	44.4	52.7
England	1116	30.1	23.2	9.0	32.2	5.5	32.2	0.0	0.7	4.8	30.3	34.1
Greece	1103	28.8	16.0	8.8	27.2	19.2	27.2	1.1	1.8	16.3	29.9	24.8
Hong Kong	1647	4.1	6.2	17.1	69.3	3.2	69.3	0.6	0.0	2.7	65.9	72.1
Hungary	1132	27.6	22.7	7.8	34.7	7.1	34.7	0.0	2.4	4.7	31.8	38.2
Iceland	629	39.7	21.6	9.7	15.9	13.2	15.9	0.6	4.6	7.9	18.5	13.4
Iran, Islamic Rep.	1254	14.8	24.2	18.3	32.8	9.9	32.8	2.9	1.2	5.7	29.4	36.9
Ireland	1089	28.3	28.1	11.8	26.9	4.9	26.9	1.4	0.4	3.1	31.2	23.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	14.6	25.6	16.6	40.9	2.4	40.9	0.8	0.1	1.4	36.9	44.8
Korea	1042	11.4	14.1	5.6	68.6	0.3	68.6	0.0	0.0	0.3	63.9	72.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	9.6	8.3	7.5	69.5	5.1	69.5	0.0	1.1	4.0	67.2	71.7
Netherlands	1070	23.0	32.7	9.2	33.2	1.8	33.2	1.7	0.0	0.1	30.5	36.3
New Zealand	941	29.6	25.6	8.3	31.8	4.6	31.8	0.0	0.9	3.7	27.5	36.4
Norway	824	25.9	14.0	6.2	38.9	15.0	38.9	0.3	5.0	9.8	36.9	40.5
Portugal	973	17.3	13.6	5.1	50.1	13.8	50.1	0.0	4.8	9.0	47.3	52.7
Scotland	1163	28.2	26.8	9.8	29.2	6.0	29.2	0.5	0.6	4.8	28.6	29.6
Singapore	2648	14.5	24.7	5.8	53.1	1.8	53.1	0.0	0.2	1.6	52.6	53.5
Slovenia	943	39.3	18.6	6.3	29.4	6.5	29.4	0.3	0.9	5.3	28.5	30.3
Thailand	1006	26.4	38.6	7.9	25.3	1.9	25.3	0.0	0.5	1.3	25.4	25.1
United States	1434	28.0	23.2	7.4	37.4	3.9	37.4	0.0	0.3	3.6	37.7	37.1
INTERNATIONAL AVG	.	22.6	20.6	8.8	41.5	6.5	41.5	0.5	1.3	4.6	39.9	43.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: H07 KEY: C
 Determine the relative magnitude of three-digit numbers when digits are rearranged. (Whole Numbers)
 Difficulty: 488

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	17.6	14.4	38.4	23.2	6.3	38.4	0.0	1.1	5.2	36.4	40.5
Austria	937	9.6	6.9	69.2	8.6	5.7	69.2	1.3	0.4	3.9	67.5	70.7
Canada	2827	14.4	9.9	57.0	13.3	5.5	57.0	1.5	0.9	3.1	55.5	58.9
Cyprus	1238	11.9	9.7	56.3	11.9	10.2	56.3	1.8	2.4	5.9	52.5	60.1
Czech Republic	1212	5.5	4.4	78.1	4.9	7.1	78.1	2.0	2.2	2.9	77.6	78.5
England	1116	19.7	14.5	29.8	27.0	9.0	29.8	0.0	0.8	8.2	30.4	29.3
Greece	1103	11.4	6.8	57.1	10.9	13.7	57.1	2.0	2.4	9.4	58.5	55.9
Hong Kong	1646	15.8	10.3	49.5	19.7	4.7	49.5	1.0	0.0	3.7	47.8	51.0
Hungary	1132	4.1	4.3	77.8	4.7	9.0	77.8	0.0	3.1	6.0	78.0	78.5
Iceland	629	12.7	9.2	57.8	10.1	10.2	57.8	0.5	5.3	4.4	59.3	56.4
Iran, Islamic Rep.	1254	13.3	9.2	40.0	20.2	17.3	40.0	2.7	1.9	12.7	40.5	39.4
Ireland	1089	13.2	9.7	55.8	16.6	4.6	55.8	1.7	0.8	2.1	57.9	54.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	5.5	6.3	80.7	2.2	5.3	80.7	4.0	0.3	1.0	79.5	81.9
Korea	1042	2.7	3.2	92.5	1.2	0.4	92.5	0.0	0.0	0.4	89.9	94.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	9.7	8.5	62.4	10.6	8.8	62.4	0.0	2.1	6.7	64.5	60.1
Netherlands	1070	14.8	15.1	49.1	16.6	4.4	49.1	4.2	0.0	0.1	48.1	50.8
New Zealand	941	15.1	13.0	52.4	16.0	3.5	52.4	0.0	1.2	2.3	52.9	51.9
Norway	824	8.1	5.9	65.1	4.8	16.1	65.1	1.8	6.7	7.6	63.8	66.2
Portugal	973	12.1	9.7	50.6	11.9	15.6	50.6	0.0	6.4	9.2	49.1	52.2
Scotland	1163	21.7	15.6	27.9	27.6	7.3	27.9	0.4	0.9	6.0	23.7	32.2
Singapore	2648	7.9	6.5	80.5	4.0	1.1	80.5	0.0	0.2	0.8	82.0	79.0
Slovenia	943	7.2	5.3	76.4	3.4	7.7	76.4	2.4	1.0	4.3	75.6	77.2
Thailand	1006	12.0	11.0	54.1	20.8	2.1	54.1	0.0	0.6	1.5	51.3	57.3
United States	1434	13.6	8.1	65.2	9.4	3.7	65.2	0.1	0.4	3.2	66.2	64.3
INTERNATIONAL AVG	.	11.6	9.1	59.3	12.5	7.5	59.3	1.1	1.7	4.6	58.7	60.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: H08 KEY: A
 Given number pattern, what are the next three numbers? (Patterns, Relations and Functions)
 Difficulty: 497

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	73.0	6.4	8.6	4.1	7.8	73.0	0.0	1.2	6.6	72.3	73.8
Austria	937	56.2	12.6	10.0	5.5	15.7	56.2	1.4	0.7	13.6	54.3	58.1
Canada	2827	72.7	5.7	11.0	4.6	6.0	72.7	0.9	1.0	4.1	74.3	72.4
Cyprus	1238	43.7	10.3	16.6	7.2	22.3	43.7	3.6	3.1	15.6	44.8	43.1
Czech Republic	1212	56.5	6.5	14.8	5.3	16.9	56.5	4.9	2.6	9.4	58.1	54.8
England	1116	68.2	7.6	9.5	6.8	7.9	68.2	0.0	1.1	6.8	68.2	68.2
Greece	1103	31.7	10.5	13.3	7.2	37.3	31.7	3.7	2.7	30.9	32.6	30.9
Hong Kong	1646	69.6	5.9	11.1	4.9	8.5	69.6	0.5	0.0	8.0	68.0	70.9
Hungary	1132	60.9	7.6	11.3	4.5	15.7	60.9	0.0	3.6	12.1	59.6	62.8
Iceland	629	41.2	17.6	13.8	7.8	19.7	41.2	1.4	5.6	12.7	44.6	37.9
Iran, Islamic Rep.	1254	21.2	17.5	17.7	12.3	31.3	21.2	3.8	2.8	24.7	21.0	21.5
Ireland	1089	60.4	9.3	13.8	5.7	10.7	60.4	4.4	1.1	5.1	63.1	58.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	72.3	2.4	10.7	3.4	11.3	72.3	7.8	0.5	3.0	76.4	68.1
Korea	1042	82.7	3.6	9.4	3.4	1.0	82.7	0.0	0.0	1.0	82.2	83.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	60.1	7.0	12.1	6.6	14.1	60.1	0.0	2.4	11.7	63.8	56.3
Netherlands	1070	47.6	14.2	19.3	12.3	6.6	47.6	6.6	0.0	0.0	47.3	47.3
New Zealand	941	62.6	8.6	13.2	7.6	7.9	62.6	0.0	1.2	6.7	64.9	60.1
Norway	824	36.0	12.5	13.7	7.9	29.9	36.0	0.7	7.4	21.8	36.5	35.8
Portugal	972	37.3	10.6	14.9	8.5	28.6	37.3	0.0	7.5	21.2	36.7	37.9
Scotland	1163	68.0	8.4	9.7	7.8	6.1	68.0	1.2	1.2	3.8	70.2	65.6
Singapore	2648	83.9	4.2	7.4	3.1	1.5	83.9	0.0	0.2	1.2	84.6	83.2
Slovenia	943	67.7	6.9	10.2	3.4	11.8	67.7	1.2	1.0	9.7	66.7	68.6
Thailand	1006	42.8	15.7	25.8	13.3	2.5	42.8	0.0	0.9	1.6	44.7	40.7
United States	1434	77.6	5.6	7.9	4.4	4.5	77.6	0.4	0.5	3.7	79.1	76.3
INTERNATIONAL AVG	.	58.1	9.0	12.7	6.6	13.6	58.1	1.8	2.0	9.8	58.9	57.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: H09 KEY: B
 Which number is equal to eight tens plus nine tens? (Whole Numbers)
 Difficulty: 493

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	17.7	62.6	10.3	4.1	5.3	62.6	0.0	1.4	3.9	61.6	63.6
Austria	937	19.3	64.9	6.7	2.5	6.6	64.9	0.4	0.8	5.3	61.9	67.7
Canada	2827	21.5	53.1	14.0	7.3	4.1	53.1	0.0	1.3	2.8	49.8	57.1
Cyprus	1238	17.1	45.6	13.6	7.6	16.2	45.6	1.1	4.0	11.1	42.8	48.4
Czech Republic	1212	8.3	69.5	8.0	5.6	8.5	69.5	0.3	3.1	5.1	64.5	74.7
England	1116	13.8	63.3	12.6	5.7	4.6	63.3	0.0	1.3	3.4	62.3	64.2
Greece	1103	16.6	39.0	10.3	10.9	23.2	39.0	1.8	4.1	17.3	38.7	39.3
Hong Kong	1646	5.4	69.0	13.8	9.5	2.4	69.0	0.1	0.1	2.2	63.5	72.9
Hungary	1132	12.3	70.3	6.6	3.2	7.6	70.3	0.0	3.9	3.6	70.5	71.2
Iceland	629	29.6	44.7	9.1	5.6	11.1	44.7	0.2	6.9	4.0	38.9	50.1
Iran, Islamic Rep.	1254	17.1	36.1	12.3	16.5	18.0	36.1	1.4	3.7	12.8	30.9	42.2
Ireland	1089	12.1	69.3	9.5	4.7	4.4	69.3	0.7	1.4	2.4	69.1	69.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	27.5	61.3	8.1	1.2	1.9	61.3	0.2	0.6	1.1	61.8	60.8
Korea	1042	0.7	89.2	9.3	0.3	0.6	89.2	0.0	0.0	0.6	87.3	90.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	7.7	63.5	11.6	6.7	10.4	63.5	0.0	2.7	7.7	64.6	62.3
Netherlands	1070	11.9	73.8	10.3	2.8	1.2	73.8	1.2	0.0	0.0	73.0	74.7
New Zealand	941	17.5	56.8	13.4	7.3	4.9	56.8	0.0	1.5	3.4	54.4	59.4
Norway	824	12.4	54.6	10.6	3.8	18.6	54.6	0.1	9.1	9.4	52.2	56.8
Portugal	973	30.6	43.0	5.3	3.7	17.4	43.0	0.0	9.0	8.4	38.5	47.5
Scotland	1163	18.1	60.4	12.4	4.7	4.4	60.4	0.2	1.4	2.9	59.3	61.3
Singapore	2648	7.8	78.9	9.2	2.8	1.3	78.9	0.0	0.2	1.0	79.3	78.5
Slovenia	943	43.0	50.2	2.5	1.1	3.1	50.2	0.1	1.2	1.8	49.0	51.3
Thailand	1006	12.9	72.6	5.9	6.0	2.6	72.6	0.0	1.2	1.4	73.1	72.0
United States	1434	19.0	56.4	13.5	6.6	4.5	56.4	0.0	0.5	4.0	54.4	58.1
INTERNATIONAL AVG	.	16.7	60.3	10.0	5.4	7.6	60.3	0.3	2.5	4.8	58.4	62.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I01 KEY: B
 Shown map with city blocks, and given directions to school, locate school on map. (Geometry)
 Difficulty: 565

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	14.6	47.4	9.8	8.3	15.0	4.9	47.4	0.0	4.9	44.6	50.0
Austria	308	9.0	57.9	12.4	5.2	7.6	7.9	57.9	1.3	6.6	57.6	60.0
Canada	946	12.7	49.1	12.0	8.8	13.5	4.0	49.1	1.6	2.4	48.3	49.5
Cyprus	434	21.2	29.2	16.4	9.1	13.1	11.0	29.2	1.8	9.2	28.2	30.4
Czech Republic	404	8.9	50.3	16.4	7.5	7.0	9.9	50.3	0.9	9.0	45.7	55.3
England	386	16.0	45.8	13.1	10.5	7.6	7.0	45.8	0.0	7.0	39.0	52.4
Greece	358	14.4	26.2	16.5	10.8	19.4	12.8	26.2	2.5	10.2	22.3	29.4
Hong Kong	553	10.7	54.7	14.2	7.0	9.1	4.4	54.7	3.4	1.0	50.8	57.6
Hungary	382	15.5	47.7	13.8	6.4	9.7	6.9	47.7	0.0	6.9	46.1	49.5
Iceland	205	13.4	40.6	22.0	7.6	8.4	7.9	40.6	0.2	7.7	29.7	52.2
Iran, Islamic Rep.	422	17.7	18.1	16.6	7.9	13.3	26.4	18.1	1.2	25.2	18.5	17.7
Ireland	360	9.0	43.4	14.8	9.6	14.4	9.0	43.4	3.9	5.1	37.8	48.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	13.1	62.5	10.5	6.3	7.1	0.6	62.5	0.4	0.2	63.5	61.5
Korea	345	13.9	58.9	6.4	9.6	11.2	0.0	58.9	0.0	0.0	54.7	63.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	10.8	45.8	12.4	10.1	7.2	13.7	45.8	0.0	13.7	41.1	50.1
Netherlands	335	18.9	44.1	8.8	13.6	11.3	3.3	44.1	3.3	0.0	43.3	45.2
New Zealand	305	12.9	46.8	9.6	10.1	15.8	4.7	46.8	0.0	4.7	44.6	48.9
Norway	285	15.5	41.4	8.4	9.4	11.2	14.1	41.4	2.0	12.1	37.0	47.9
Portugal	332	13.1	25.1	19.0	6.6	8.6	27.6	25.1	0.0	27.6	24.4	25.8
Scotland	389	11.5	54.4	14.6	8.2	7.8	3.5	54.4	1.0	2.5	51.0	57.9
Singapore	885	15.4	28.5	22.2	15.4	16.5	2.0	28.5	0.0	2.0	24.2	32.6
Slovenia	307	14.3	50.5	11.6	8.9	8.2	6.5	50.5	0.9	5.6	43.6	56.4
Thailand	301	12.7	19.6	36.9	18.0	11.4	1.4	19.6	0.0	1.4	18.2	21.4
United States	469	15.6	52.4	13.2	5.6	10.6	2.5	52.4	0.5	2.0	47.2	57.3
INTERNATIONAL AVG	.	13.8	43.4	14.7	9.2	11.0	8.0	43.4	1.0	6.9	40.1	46.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I02 KEY: B
 Which of the following word expressions is the same as .4? (Fractions and Proportionality)
 Difficulty: 652

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	50.5	21.5	5.9	21.1	1.0	21.5	0.0	0.0	1.0	21.1	21.9
Austria	308	49.6	16.1	6.9	21.3	6.2	16.1	1.0	0.0	5.2	16.6	16.0
Canada	946	55.4	20.0	4.8	19.4	0.4	20.0	0.1	0.0	0.3	17.2	23.5
Cyprus	436	76.3	13.1	3.3	4.7	2.7	13.1	0.9	0.0	1.7	14.0	12.3
Czech Republic	404	33.8	26.3	13.8	16.9	9.3	26.3	1.3	0.0	8.0	18.6	34.7
England	386	61.4	11.4	2.0	23.0	2.2	11.4	0.0	0.2	1.9	10.3	12.5
Greece	358	51.8	10.6	4.5	18.8	14.3	10.6	2.0	0.5	11.9	8.6	12.3
Hong Kong	552	64.0	17.5	10.9	6.6	1.0	17.5	0.0	0.0	1.0	13.1	20.6
Hungary	382	56.7	16.4	2.8	19.9	4.3	16.4	0.0	0.3	4.0	14.1	18.8
Iceland	205	60.1	12.6	8.4	15.7	3.2	12.6	0.0	1.7	1.6	6.5	19.0
Iran, Islamic Rep.	424	26.2	23.5	20.0	13.8	16.4	23.5	0.8	0.2	15.4	23.7	23.3
Ireland	360	45.8	26.9	5.1	19.7	2.5	26.9	0.4	0.8	1.3	27.4	26.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	26.7	53.9	3.3	15.8	0.3	53.9	0.0	0.0	0.3	55.0	53.0
Korea	345	35.2	54.6	3.2	7.1	0.0	54.6	0.0	0.0	0.0	52.5	56.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	40.0	13.2	8.2	27.5	11.1	13.2	0.0	0.6	10.5	10.9	15.5
Netherlands	335	67.2	6.1	3.7	22.6	0.3	6.1	0.3	0.0	0.0	6.1	6.2
New Zealand	305	55.6	10.2	4.6	28.1	1.6	10.2	0.0	0.0	1.6	10.6	9.8
Norway	285	42.9	11.9	8.8	28.4	8.0	11.9	0.0	1.3	6.7	13.3	11.1
Portugal	333	10.2	78.8	3.9	4.7	2.5	78.8	0.0	1.8	0.6	80.5	77.3
Scotland	389	62.2	8.8	5.0	21.9	2.1	8.8	0.1	0.0	1.9	8.4	9.3
Singapore	885	73.0	8.2	3.9	13.8	1.1	8.2	0.0	0.2	1.0	6.8	9.6
Slovenia	307	48.4	9.5	8.2	27.8	6.1	9.5	0.5	0.0	5.6	4.9	13.5
Thailand	301	66.8	13.4	4.9	14.9	0.0	13.4	0.0	0.0	0.0	10.7	16.8
United States	469	57.7	20.9	5.1	15.5	0.9	20.9	0.0	0.0	0.9	16.3	25.2
INTERNATIONAL AVG	.	50.7	21.1	6.3	17.9	4.1	21.1	0.3	0.3	3.4	19.5	22.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I03 KEY: D

Which of the numbers below, when subtracted from 900, yields an answer greater than 300? (Whole Numbers)

Difficulty: 547

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	21.2	10.5	21.8	41.6	4.8	41.6	0.0	0.0	4.8	42.3	41.0
Austria	308	11.5	9.1	24.0	44.8	10.6	44.8	0.0	0.2	10.4	48.5	42.4
Canada	946	22.5	8.0	26.0	37.9	5.6	37.9	0.4	0.0	5.2	33.1	40.3
Cyprus	436	13.1	8.9	24.5	47.7	5.8	47.7	0.2	0.0	5.6	47.2	48.2
Czech Republic	404	8.1	5.6	21.5	59.1	5.6	59.1	0.3	0.0	5.3	62.0	55.9
England	386	26.2	10.8	17.2	42.9	2.9	42.9	0.0	0.2	2.6	36.9	48.7
Greece	358	16.2	6.7	22.5	37.5	17.1	37.5	2.0	0.5	14.7	33.8	40.5
Hong Kong	552	3.9	7.2	31.3	54.2	3.5	54.2	0.2	0.0	3.4	56.5	52.5
Hungary	382	7.5	4.4	17.4	67.3	3.5	67.3	0.0	0.3	3.2	66.8	67.2
Iceland	205	32.4	12.4	22.8	25.2	7.1	25.2	0.0	1.7	5.5	23.1	27.5
Iran, Islamic Rep.	424	21.9	8.0	18.8	34.0	17.3	34.0	1.2	0.2	15.9	33.6	34.4
Ireland	360	20.8	10.0	21.1	43.9	4.2	43.9	0.6	0.8	2.9	45.7	42.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	18.2	7.9	18.9	52.8	2.3	52.8	0.2	0.2	1.9	54.0	51.7
Korea	345	9.9	3.2	15.2	71.5	0.2	71.5	0.0	0.0	0.2	67.8	75.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	6.2	7.8	20.5	55.7	9.9	55.7	0.0	0.6	9.2	60.6	51.0
Netherlands	335	21.0	11.7	22.7	44.1	0.5	44.1	0.5	0.0	0.0	43.0	45.5
New Zealand	305	28.8	12.2	21.1	33.5	4.4	33.5	0.0	0.0	4.4	32.4	34.5
Norway	285	22.1	9.0	18.1	36.8	14.0	36.8	0.3	1.3	12.4	36.6	34.8
Portugal	333	16.0	6.6	18.2	37.2	22.0	37.2	0.0	1.8	20.2	35.5	38.6
Scotland	389	22.3	8.2	27.4	38.3	3.7	38.3	0.2	0.0	3.5	38.7	37.4
Singapore	885	13.9	9.3	26.5	48.6	1.8	48.6	0.0	0.2	1.6	51.5	45.8
Slovenia	307	8.3	7.0	22.5	55.6	6.7	55.6	0.6	0.0	6.1	52.8	58.0
Thailand	301	16.2	11.0	28.4	42.4	2.0	42.4	0.0	0.0	2.0	40.6	44.7
United States	469	21.9	10.4	25.9	39.9	1.8	39.9	0.0	0.0	1.8	40.7	39.1
INTERNATIONAL AVG	.	17.1	8.6	22.3	45.5	6.6	45.5	0.3	0.3	6.0	45.2	45.7

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

THIRD INTERNATIONAL MATHEMATICS AND SCIENCE STUDY - 1995 ASSESSMENT
 Percent of responses by Math Item Categories - THIRD GRADE

May 14, 1998 41

Item: I04 KEY: C
 What is 3 times 23? (Whole Numbers)
 Difficulty: 400

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	7.7	7.9	78.6	3.6	2.2	78.6	0.0	0.0	2.2	79.5	77.8
Austria	308	12.9	2.9	77.0	3.5	3.6	77.0	0.0	0.2	3.5	75.0	79.0
Canada	946	9.1	6.3	72.2	9.6	2.9	72.2	0.3	0.0	2.6	70.8	71.7
Cyprus	436	20.1	3.0	69.6	4.0	3.2	69.6	0.5	0.2	2.6	64.8	73.5
Czech Republic	404	3.6	1.1	91.3	3.2	0.9	91.3	0.0	0.0	0.9	92.6	89.7
England	386	7.5	8.6	70.9	9.1	3.9	70.9	0.0	0.2	3.7	65.9	75.7
Greece	358	8.1	6.5	76.1	3.6	5.8	76.1	2.0	0.5	3.3	72.3	79.1
Hong Kong	552	4.7	1.7	90.6	2.5	0.5	90.6	0.2	0.0	0.3	90.2	91.2
Hungary	382	4.4	1.8	90.1	1.2	2.5	90.1	0.0	0.3	2.2	88.6	91.4
Iceland	205	11.2	9.9	66.9	8.4	3.4	66.9	0.0	1.7	1.8	63.9	70.2
Iran, Islamic Rep.	424	15.6	20.7	40.7	10.3	12.7	40.7	1.2	0.5	10.9	38.3	43.3
Ireland	360	9.1	4.4	70.3	12.6	3.7	70.3	0.7	0.8	2.3	70.0	70.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	1.8	9.0	85.2	3.0	1.0	85.2	0.0	0.2	0.9	89.7	81.2
Korea	345	17.8	2.3	74.4	5.6	0.0	74.4	0.0	0.0	0.0	64.6	83.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	3.7	4.5	88.3	1.9	1.6	88.3	0.0	0.6	1.0	86.8	89.8
Netherlands	335	8.4	3.8	84.1	3.0	0.7	84.1	0.7	0.0	0.0	80.3	87.5
New Zealand	305	12.3	7.5	68.3	7.3	4.5	68.3	0.0	0.0	4.5	65.4	71.0
Norway	285	13.3	10.6	58.3	9.8	8.0	58.3	0.0	1.3	6.7	52.8	63.9
Portugal	333	7.6	4.7	76.4	4.9	6.3	76.4	0.0	1.8	4.5	80.6	73.0
Scotland	389	8.5	8.5	73.4	7.9	1.6	73.4	0.0	0.0	1.6	73.3	73.0
Singapore	885	5.6	1.2	89.0	2.8	1.4	89.0	0.0	0.2	1.3	91.7	86.4
Slovenia	307	5.8	2.2	86.6	2.8	2.6	86.6	0.3	0.0	2.4	84.3	88.5
Thailand	301	39.7	8.4	26.2	23.7	2.0	26.2	0.0	0.0	2.0	24.9	27.8
United States	469	7.4	6.9	75.2	8.1	2.5	75.2	0.0	0.0	2.5	73.0	77.2
INTERNATIONAL AVG	.	10.2	6.0	74.1	6.4	3.2	74.1	0.2	0.4	2.6	72.5	75.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I05 KEY: A
 If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make? (Fractions and Proportionality)
 Difficulty: 582

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	48.6	14.3	15.5	21.3	0.3	48.6	0.0	0.0	0.3	43.7	53.3
Austria	308	42.2	10.0	14.3	32.1	1.4	42.2	0.0	0.2	1.3	37.8	46.5
Canada	946	32.7	16.8	19.5	30.1	0.9	32.7	0.1	0.0	0.8	29.9	34.0
Cyprus	436	45.8	13.0	12.4	27.0	1.8	45.8	0.1	0.2	1.5	37.2	53.8
Czech Republic	404	49.6	9.9	13.9	24.3	2.2	49.6	0.2	0.0	2.0	43.1	56.7
England	386	38.9	14.7	12.6	31.8	1.9	38.9	0.0	0.2	1.7	31.7	45.9
Greece	358	44.8	12.5	14.7	21.6	6.4	44.8	0.8	0.5	5.2	42.3	46.8
Hong Kong	553	60.8	8.8	11.0	18.2	1.1	60.8	0.2	0.0	1.0	54.3	65.8
Hungary	382	51.9	11.7	17.1	15.3	4.1	51.9	0.0	0.3	3.8	49.1	55.0
Iceland	205	34.4	13.5	13.1	35.0	4.0	34.4	0.0	1.7	2.4	24.6	44.6
Iran, Islamic Rep.	424	34.9	14.4	12.9	27.2	10.6	34.9	0.9	0.5	9.2	30.9	39.2
Ireland	360	41.0	13.6	12.4	31.5	1.4	41.0	0.2	0.8	0.4	39.3	42.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	37.4	14.4	23.9	23.4	0.8	37.4	0.0	0.2	0.6	38.8	36.2
Korea	345	52.6	5.7	17.3	24.0	0.3	52.6	0.0	0.0	0.3	41.9	63.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	37.3	13.4	15.7	29.2	4.4	37.3	0.0	0.6	3.8	40.2	34.5
Netherlands	335	41.6	8.1	19.5	30.3	0.5	41.6	0.5	0.0	0.0	37.0	45.4
New Zealand	305	37.1	13.2	16.3	32.0	1.4	37.1	0.0	0.0	1.4	35.1	38.9
Norway	285	33.0	16.2	17.4	27.6	5.7	33.0	0.0	1.3	4.4	33.0	35.4
Portugal	332	36.9	16.0	12.2	25.0	10.0	36.9	0.0	1.8	8.1	33.6	39.6
Scotland	389	28.5	13.6	18.3	38.7	1.0	28.5	0.0	0.0	1.0	25.7	31.0
Singapore	885	50.8	9.9	14.0	24.3	1.1	50.8	0.0	0.2	0.9	45.6	55.7
Slovenia	307	48.0	11.5	12.2	26.0	2.3	48.0	0.3	0.0	2.0	41.0	54.0
Thailand	301	46.2	16.3	17.9	18.2	1.4	46.2	0.0	0.7	0.7	49.8	41.7
United States	469	36.6	11.6	14.3	35.2	2.3	36.6	0.0	0.0	2.3	36.4	36.8
INTERNATIONAL AVG	.	42.1	12.6	15.4	27.0	2.8	42.1	0.1	0.4	2.3	38.4	45.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I06 KEY: D
 Which of the following figures is made with straight sides only? (Geometry)
 Difficulty: 472

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	0.8	1.3	11.9	79.3	4.7	2.0	79.3	0.0	0.0	2.0	77.2	81.4
Austria	308	2.2	1.4	32.4	61.8	1.4	0.8	61.8	0.0	0.2	0.6	56.1	66.0
Canada	946	2.0	4.5	21.3	59.9	9.0	3.3	59.9	2.1	0.0	1.2	58.9	64.2
Cyprus	436	5.1	6.4	24.6	47.0	8.3	8.6	47.0	3.7	0.2	4.7	43.6	50.9
Czech Republic	404	1.8	0.3	9.2	78.9	4.0	5.9	78.9	3.1	0.0	2.8	80.6	76.9
England	386	1.3	1.4	18.1	69.7	4.2	5.3	69.7	0.0	0.2	5.1	70.0	69.3
Greece	358	2.1	2.1	57.6	27.4	1.4	9.5	27.4	4.0	0.8	4.7	28.3	26.6
Hong Kong	553	1.9	2.3	8.6	82.6	1.8	2.8	82.6	0.6	0.2	2.0	83.5	82.2
Hungary	382	0.4	1.9	15.1	81.3	0.8	0.6	81.3	0.0	0.3	0.4	80.2	82.5
Iceland	205	0.8	0.6	37.9	56.2	0.5	4.0	56.2	0.0	1.7	2.3	47.8	65.1
Iran, Islamic Rep.	424	8.9	4.4	31.9	30.1	4.2	20.6	30.1	5.4	0.9	14.3	29.4	30.9
Ireland	360	3.1	0.7	24.8	55.6	11.0	4.8	55.6	3.5	0.8	0.5	57.7	53.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	3.1	3.1	5.1	84.8	2.0	2.0	84.8	0.0	0.2	1.8	83.5	85.9
Korea	345	0.8	4.0	7.2	86.5	1.3	0.2	86.5	0.0	0.0	0.2	87.6	85.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	1.3	0.7	8.3	85.0	0.9	3.6	85.0	0.0	1.0	2.6	85.7	84.4
Netherlands	335	0.5	1.3	20.0	76.6	0.0	1.5	76.6	1.3	0.0	0.3	70.9	81.9
New Zealand	305	1.8	3.4	19.2	67.4	5.9	2.4	67.4	0.0	0.0	2.4	72.4	62.7
Norway	285	2.2	1.4	29.3	60.0	1.9	5.1	60.0	0.9	1.9	2.3	58.1	60.4
Portugal	333	5.4	4.7	25.4	39.0	12.4	13.0	39.0	0.0	2.0	11.0	37.4	40.3
Scotland	389	0.9	0.8	21.8	66.7	4.1	5.7	66.7	4.0	0.0	1.7	67.8	65.0
Singapore	885	4.1	3.7	11.4	72.2	6.8	1.8	72.2	0.0	0.2	1.6	76.8	67.9
Slovenia	307	1.3	3.0	11.8	80.4	0.0	3.4	80.4	1.6	0.2	1.6	79.9	80.9
Thailand	301	1.3	5.4	29.4	57.7	2.4	3.7	57.7	0.0	1.1	2.5	57.0	58.7
United States	469	1.0	2.5	21.2	66.1	6.4	2.7	66.1	0.1	0.0	2.5	65.9	66.4
INTERNATIONAL AVG	.	2.3	2.5	21.0	65.5	4.0	4.7	65.5	1.3	0.5	3.0	64.8	66.2

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I07 KEY: D
 Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining? (Patterns, Relations and Functions)
 Difficulty: 545

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	21.6	19.0	8.0	42.1	9.3	42.1	0.0	0.0	9.3	44.2	40.1
Austria	308	10.6	16.6	9.0	50.6	13.3	50.6	0.2	0.2	12.9	51.0	51.3
Canada	946	18.2	15.4	11.4	44.3	10.7	44.3	2.9	0.0	7.8	39.2	49.8
Cyprus	436	18.8	12.9	7.8	46.7	13.8	46.7	1.7	0.2	11.9	44.5	48.7
Czech Republic	404	12.8	10.9	4.1	62.7	9.4	62.7	3.6	0.0	5.8	60.9	64.7
England	386	20.5	23.5	12.3	30.0	13.7	30.0	0.0	0.2	13.4	25.2	34.6
Greece	358	15.5	11.7	4.7	34.9	33.2	34.9	3.7	0.8	28.7	35.7	34.3
Hong Kong	553	9.0	6.8	5.3	60.9	18.0	60.9	0.5	0.2	17.3	64.8	58.0
Hungary	382	10.2	9.2	2.9	71.2	6.4	71.2	0.0	0.3	6.1	70.6	72.7
Iceland	205	27.2	22.2	10.2	27.8	12.6	27.8	0.0	1.7	10.9	22.0	33.8
Iran, Islamic Rep.	424	16.1	15.5	10.5	32.6	25.3	32.6	1.2	0.9	23.2	32.3	32.9
Ireland	360	21.0	12.3	12.9	41.1	12.8	41.1	6.5	0.8	5.5	42.3	40.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	9.0	6.3	6.5	76.6	1.6	76.6	0.2	0.2	1.3	77.8	75.7
Korea	345	5.4	2.8	7.9	82.5	1.4	82.5	0.0	0.0	1.4	85.9	79.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	15.7	19.5	5.2	51.9	7.7	51.9	0.0	1.0	6.7	50.1	53.6
Netherlands	335	13.5	23.7	8.4	52.3	2.1	52.3	2.1	0.0	0.0	56.8	47.6
New Zealand	305	22.6	19.4	12.5	33.2	12.3	33.2	0.0	0.0	12.3	34.5	32.0
Norway	285	20.4	23.4	9.8	31.2	15.3	31.2	0.9	1.9	12.5	30.6	31.9
Portugal	333	13.8	11.4	6.9	40.2	27.7	40.2	0.0	2.3	25.4	37.5	42.6
Scotland	389	20.8	22.2	11.8	34.1	11.1	34.1	0.5	0.0	10.6	34.7	34.0
Singapore	885	24.6	9.5	5.3	57.9	2.7	57.9	0.0	0.2	2.6	59.6	56.2
Slovenia	307	16.6	11.4	5.2	59.8	7.0	59.8	0.5	0.2	6.3	56.8	62.4
Thailand	301	22.9	14.9	8.0	48.6	5.7	48.6	0.0	1.1	4.6	53.0	43.0
United States	469	23.7	10.7	9.3	53.1	3.2	53.1	0.0	0.0	3.2	55.3	51.0
INTERNATIONAL AVG	.	17.1	14.6	8.2	48.6	11.5	48.6	1.0	0.5	10.0	48.6	48.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: I08 KEY: A
 Shown four diagrams with various fractions shaded, which two represent the same fraction? (Fractions and Proportionality)
 Difficulty: 568

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	45.1	11.0	11.8	28.7	3.4	45.1	0.0	0.0	3.4	46.4	43.9
Austria	308	58.0	10.9	9.2	15.6	6.2	58.0	0.2	0.2	5.8	51.1	63.6
Canada	946	44.5	13.8	9.5	27.4	4.7	44.5	2.0	0.9	1.8	45.2	46.1
Cyprus	436	41.4	12.1	13.0	19.3	14.2	41.4	4.6	0.4	9.2	39.7	43.4
Czech Republic	403	50.3	9.5	8.4	18.6	13.2	50.3	4.2	0.0	8.9	50.8	49.9
England	386	50.5	9.5	10.0	26.9	3.1	50.5	0.0	0.2	2.9	51.9	49.1
Greece	358	50.4	8.3	12.0	13.9	15.5	50.4	3.3	0.8	11.3	52.2	48.9
Hong Kong	553	38.5	18.3	10.1	27.6	5.5	38.5	1.9	0.2	3.4	35.1	41.0
Hungary	382	57.5	10.5	8.5	17.1	6.4	57.5	0.0	1.3	5.2	56.6	58.8
Iceland	205	48.1	15.5	14.2	17.4	4.8	48.1	1.2	1.7	1.9	51.2	44.9
Iran, Islamic Rep.	424	25.3	19.3	15.8	22.2	17.4	25.3	5.1	1.2	11.1	25.4	25.3
Ireland	360	43.4	9.6	12.4	27.5	7.1	43.4	3.1	1.0	3.0	44.2	42.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	42.4	18.5	11.5	24.0	3.6	42.4	2.2	0.2	1.2	43.1	41.8
Korea	345	43.9	14.1	18.4	23.2	0.3	43.9	0.0	0.0	0.3	44.1	43.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	45.0	17.6	9.0	14.8	13.6	45.0	0.0	1.4	12.2	50.7	39.7
Netherlands	335	56.1	10.3	17.5	14.7	1.4	56.1	1.4	0.0	0.0	56.6	55.3
New Zealand	305	44.0	11.5	16.6	22.9	5.0	44.0	0.0	0.0	5.0	47.7	40.5
Norway	285	50.1	8.8	8.8	17.5	14.7	50.1	0.4	2.4	11.9	49.9	48.9
Portugal	333	35.0	12.5	8.3	26.4	17.7	35.0	0.0	2.3	15.4	34.0	35.8
Scotland	389	45.9	11.2	11.1	29.4	2.4	45.9	0.3	0.0	2.1	44.3	47.5
Singapore	885	57.6	16.1	10.3	14.7	1.3	57.6	0.0	0.2	1.1	55.8	59.4
Slovenia	307	61.5	6.9	7.3	19.2	5.1	61.5	1.0	0.2	3.9	64.4	58.9
Thailand	301	34.1	17.2	17.2	28.0	3.6	34.1	0.0	1.6	2.0	29.7	39.5
United States	469	40.6	12.5	10.7	32.9	3.3	40.6	0.7	0.0	2.5	37.4	43.6
INTERNATIONAL AVG	.	46.2	12.7	11.7	22.1	7.2	46.2	1.3	0.7	5.2	46.2	46.4

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

THIRD INTERNATIONAL MATHEMATICS AND SCIENCE STUDY - 1995 ASSESSMENT
 Percent of responses by Math Item Categories - THIRD GRADE

May 14, 1998 46

Item: I09 KEY: C
 Subtract: 6000-2369. (Whole Numbers)
 Difficulty: 513

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	52.7	10.2	22.4	11.0	3.7	22.4	0.0	0.1	3.6	25.4	19.6
Austria	308	11.5	6.5	76.4	2.7	3.0	76.4	0.2	0.2	2.6	77.1	75.7
Canada	946	37.7	8.7	37.9	11.3	4.5	37.9	0.4	0.9	3.1	39.2	38.5
Cyprus	436	19.7	8.3	53.6	11.2	7.3	53.6	0.1	0.7	6.4	56.9	49.8
Czech Republic	403	23.4	7.4	60.8	3.3	5.1	60.8	0.5	0.0	4.6	58.9	62.8
England	386	46.3	12.1	23.0	12.1	6.6	23.0	0.0	0.2	6.4	25.1	20.9
Greece	358	24.7	6.1	46.3	4.6	18.3	46.3	1.2	0.8	16.3	46.8	45.9
Hong Kong	553	4.3	5.5	78.4	10.5	1.3	78.4	0.4	0.2	0.7	76.1	80.3
Hungary	382	15.6	5.0	73.5	2.4	3.5	73.5	0.0	1.3	2.2	75.4	71.8
Iceland	205	53.6	13.3	15.3	9.5	8.3	15.3	0.0	2.2	6.1	12.6	18.1
Iran, Islamic Rep.	424	18.3	8.6	51.7	5.7	15.7	51.7	0.6	1.2	13.9	55.4	47.7
Ireland	360	27.0	13.5	49.4	5.6	4.4	49.4	0.9	1.3	2.2	54.6	44.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	12.8	7.8	72.6	5.6	1.2	72.6	0.0	0.2	1.0	71.5	73.6
Korea	345	2.7	5.8	87.6	3.6	0.2	87.6	0.0	0.0	0.2	85.2	89.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	27.9	9.4	41.6	11.7	9.3	41.6	0.0	1.4	8.0	42.9	40.4
Netherlands	335	27.1	14.3	45.5	10.2	2.9	45.5	2.9	0.0	0.0	48.6	43.0
New Zealand	305	54.2	12.4	15.2	14.4	3.9	15.2	0.0	0.0	3.9	15.8	14.6
Norway	285	57.6	9.1	9.5	9.3	14.6	9.5	0.0	3.0	11.6	10.5	8.0
Portugal	333	22.0	5.8	60.2	3.6	8.3	60.2	0.0	3.3	5.0	62.7	58.2
Scotland	389	41.3	11.0	28.8	12.2	6.7	28.8	0.2	0.0	6.5	29.3	28.2
Singapore	885	3.1	3.6	90.1	1.9	1.4	90.1	0.0	0.2	1.2	92.7	87.6
Slovenia	307	23.6	8.3	62.4	1.1	4.7	62.4	0.3	0.2	4.2	62.2	62.6
Thailand	301	24.4	7.8	49.8	14.8	3.2	49.8	0.0	1.6	1.6	44.9	55.9
United States	469	28.2	8.5	52.0	7.3	4.0	52.0	0.0	0.0	4.0	51.8	52.1
INTERNATIONAL AVG	.	27.5	8.7	50.2	7.7	5.9	50.2	0.3	0.8	4.8	50.9	49.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J01 KEY: A
 Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles) (Geometry)
 Difficulty: 372

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	89.5	1.0	7.1	2.1	0.3	89.5	0.0	0.2	0.1	93.4	85.6
Austria	310	81.2	3.9	6.5	7.1	1.4	81.2	0.0	0.2	1.2	79.0	83.6
Canada	949	87.9	3.0	4.7	3.5	0.9	87.9	0.0	0.4	0.5	85.0	89.9
Cyprus	403	83.7	2.3	6.1	4.6	3.3	83.7	0.3	0.8	2.2	83.3	83.8
Czech Republic	400	90.6	2.0	2.6	1.9	2.8	90.6	0.2	0.4	2.2	91.2	89.9
England	383	85.0	2.3	6.6	4.8	1.3	85.0	0.0	0.0	1.3	84.3	85.7
Greece	380	81.0	2.4	6.9	4.5	5.1	81.0	0.8	1.2	3.2	86.4	75.3
Hong Kong	554	96.6	0.2	2.1	0.5	0.6	96.6	0.1	0.0	0.5	95.5	97.5
Hungary	383	75.8	5.7	6.0	6.8	5.7	75.8	0.0	0.4	5.3	74.7	77.5
Iceland	213	79.7	6.5	4.2	5.2	4.3	79.7	0.5	2.7	1.2	85.5	74.1
Iran, Islamic Rep.	414	62.9	3.6	20.4	5.8	7.3	62.9	0.9	1.3	5.1	60.9	65.4
Ireland	347	83.7	3.0	7.4	5.5	0.4	83.7	0.0	0.4	0.0	85.9	81.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	76.6	13.2	5.3	4.4	0.4	76.6	0.4	0.1	0.0	76.9	76.3
Korea	338	75.3	10.3	8.1	6.0	0.4	75.3	0.0	0.0	0.4	72.2	78.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	86.5	4.3	3.7	4.3	1.1	86.5	0.0	0.8	0.4	91.0	81.6
Netherlands	344	93.9	0.4	3.2	1.5	1.1	93.9	0.4	0.0	0.7	95.2	92.2
New Zealand	314	85.3	3.2	6.0	3.0	2.5	85.3	0.0	0.4	2.1	92.6	77.8
Norway	280	71.0	7.0	7.1	8.5	6.4	71.0	0.0	2.9	3.5	70.4	70.9
Portugal	330	66.9	2.5	21.0	4.2	5.3	66.9	0.0	3.1	2.2	66.9	66.9
Scotland	392	87.8	1.9	6.2	2.8	1.3	87.8	0.0	0.8	0.5	89.0	86.7
Singapore	875	84.8	3.5	6.9	4.3	0.6	84.8	0.0	0.1	0.4	85.8	83.9
Slovenia	320	89.5	2.2	5.7	0.8	1.9	89.5	0.0	0.8	1.0	93.5	85.7
Thailand	409	57.5	16.3	11.3	13.0	1.9	57.5	0.0	0.9	1.1	53.0	61.7
United States	469	89.7	3.1	3.7	2.6	1.0	89.7	0.0	0.3	0.6	89.4	89.9
INTERNATIONAL AVG	.	81.8	4.3	7.0	4.5	2.4	81.8	0.1	0.8	1.5	82.5	80.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J02 KEY: C
 Shown several drawings with a line through each, which does not show a line of symmetry? (Geometry)
 Difficulty: 515

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	2.0	12.3	71.4	11.5	2.8	71.4	0.0	0.2	2.6	76.6	66.3
Austria	310	3.8	19.8	56.9	10.9	8.6	56.9	0.5	0.2	7.9	57.5	56.2
Canada	949	3.2	11.6	69.7	13.3	2.2	69.7	0.2	0.5	1.5	71.0	70.9
Cyprus	403	7.2	25.0	40.7	11.9	15.2	40.7	0.5	1.7	13.0	42.3	39.2
Czech Republic	400	5.5	7.8	61.9	14.7	10.1	61.9	2.8	0.4	6.9	60.5	63.5
England	383	4.7	11.7	68.4	12.3	2.8	68.4	0.0	0.2	2.6	67.6	69.3
Greece	380	15.9	21.5	25.3	16.5	20.7	25.3	0.3	1.2	19.3	24.6	26.4
Hong Kong	554	2.6	4.9	82.3	8.0	2.2	82.3	0.8	0.0	1.4	82.5	82.2
Hungary	383	6.4	22.8	49.7	11.3	9.8	49.7	0.0	0.9	8.9	53.0	45.7
Iceland	213	11.2	16.6	41.0	17.4	13.9	41.0	0.2	2.7	11.0	45.0	37.1
Iran, Islamic Rep.	414	6.9	8.8	54.9	12.1	17.4	54.9	7.4	1.9	8.1	55.3	54.3
Ireland	347	6.3	17.2	53.9	20.8	1.8	53.9	0.6	0.4	0.8	58.1	50.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	9.3	32.5	42.7	10.9	4.6	42.7	2.0	0.1	2.4	45.3	40.1
Korea	338	10.3	6.2	77.3	5.6	0.7	77.3	0.0	0.0	0.7	80.3	74.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	8.5	12.6	49.7	17.8	11.4	49.7	0.0	0.8	10.6	48.3	51.3
Netherlands	344	11.8	30.7	33.2	21.7	2.5	33.2	1.8	0.0	0.7	34.8	32.1
New Zealand	314	9.7	14.9	54.3	15.9	5.3	54.3	0.0	0.8	4.4	58.8	49.7
Norway	280	18.7	27.4	18.0	21.7	14.3	18.0	0.0	3.8	10.5	17.9	18.1
Portugal	330	8.0	22.4	31.6	15.6	22.4	31.6	0.0	3.1	19.3	30.7	32.5
Scotland	392	1.8	7.1	79.8	8.4	2.9	79.8	0.6	0.8	1.5	81.6	78.4
Singapore	875	5.3	20.1	55.3	16.6	2.7	55.3	0.0	0.2	2.5	54.5	55.9
Slovenia	320	4.5	15.3	64.7	5.8	9.7	64.7	0.0	1.1	8.6	68.8	60.9
Thailand	409	10.8	16.6	57.9	9.3	5.4	57.9	0.0	1.4	4.0	62.1	54.1
United States	469	5.9	9.9	64.3	17.4	2.4	64.3	0.5	0.3	1.6	66.4	62.5
INTERNATIONAL AVG	.	7.5	16.5	54.4	13.6	8.0	54.4	0.8	0.9	6.3	56.0	52.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J03 KEY: D
 Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined? (Data Rep., Analysis and Probability)
 Difficulty: 472

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	12.0	5.7	7.2	63.3	9.3	2.5	63.3	0.0	0.3	2.3	67.8	58.9
Austria	310	5.3	6.0	4.4	68.0	10.2	6.1	68.0	0.9	0.8	4.4	67.6	68.5
Canada	949	10.5	5.3	4.5	66.4	9.6	3.6	66.4	1.5	0.6	1.5	66.8	66.8
Cyprus	403	9.5	15.0	7.3	38.9	16.1	13.2	38.9	2.6	1.7	8.9	38.4	39.5
Czech Republic	400	7.9	5.8	3.6	62.2	12.9	7.6	62.2	1.5	0.4	5.7	62.2	62.1
England	383	12.1	5.2	5.6	63.0	10.3	3.8	63.0	0.0	0.6	3.2	60.3	66.2
Greece	380	6.7	4.3	6.5	48.8	15.3	18.5	48.8	3.6	1.5	13.4	55.1	42.4
Hong Kong	554	5.0	5.7	5.5	76.5	5.2	2.1	76.5	0.9	0.0	1.3	74.1	78.2
Hungary	383	5.1	7.7	3.6	59.2	12.5	11.9	59.2	0.0	1.0	10.8	66.9	55.0
Iceland	212	6.3	14.1	7.7	50.7	14.0	7.2	50.7	0.0	3.0	4.2	50.2	51.1
Iran, Islamic Rep.	414	14.5	10.6	11.4	30.0	15.8	17.8	30.0	2.0	1.9	14.0	26.1	35.0
Ireland	347	6.1	2.8	5.7	70.8	10.1	4.4	70.8	2.9	0.4	1.1	73.0	68.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	.	.	.	.	.	.	.	.	.	.	.	.	.
Korea	338	4.4	1.9	2.1	90.0	1.3	0.4	90.0	0.0	0.0	0.4	90.5	89.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	254	6.6	4.4	3.5	58.9	18.6	8.0	58.9	0.0	0.8	7.2	57.2	60.8
Netherlands	344	6.4	3.4	2.3	74.2	9.5	4.2	74.2	3.5	0.0	0.7	73.3	74.8
New Zealand	314	10.3	6.3	7.5	54.7	12.3	8.8	54.7	0.0	2.0	6.8	56.8	52.6
Norway	280	6.4	5.1	9.3	59.7	9.9	9.5	59.7	0.7	4.1	4.7	59.5	60.1
Portugal	330	10.4	3.2	3.3	56.7	12.4	14.0	56.7	0.0	4.2	9.8	53.9	59.3
Scotland	392	11.6	6.4	4.8	60.5	11.4	5.3	60.5	2.1	1.0	2.2	60.1	60.4
Singapore	875	5.2	4.2	4.2	77.8	7.6	1.0	77.8	0.0	0.2	0.8	79.8	76.2
Slovenia	320	5.3	4.0	4.0	70.4	11.5	4.9	70.4	0.3	1.1	3.5	75.0	66.1
Thailand	409	13.6	7.7	9.6	56.3	8.9	3.9	56.3	0.0	1.8	2.1	59.9	53.0
United States	469	13.1	5.2	4.7	66.2	9.7	1.2	66.2	0.0	0.3	0.8	64.1	67.8
INTERNATIONAL AVG	.	8.4	6.1	5.6	61.9	11.1	7.0	61.9	1.0	1.2	4.8	62.5	61.4

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J04 KEY: B
 25 x 18 is more than 24 x 18. How much more? (Whole Numbers)
 Difficulty: 614

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	47.1	35.0	4.2	9.3	4.3	35.0	0.0	0.4	3.9	30.9	39.2
Austria	310	53.0	27.5	3.3	8.8	7.5	27.5	0.0	0.8	6.7	26.8	28.7
Canada	949	52.0	29.1	5.2	10.7	2.9	29.1	0.1	0.6	2.3	20.4	38.8
Cyprus	403	60.1	14.4	4.8	12.5	8.2	14.4	1.1	2.7	4.4	13.9	15.1
Czech Republic	400	51.5	28.7	3.2	7.1	9.5	28.7	0.9	0.6	8.0	24.6	33.1
England	383	54.7	27.4	4.7	9.5	3.7	27.4	0.0	0.6	3.1	23.3	32.1
Greece	380	49.8	16.3	4.8	17.6	11.5	16.3	0.7	1.7	9.1	12.5	20.7
Hong Kong	554	42.8	35.1	8.4	10.9	2.9	35.1	0.3	0.0	2.6	28.4	40.0
Hungary	383	40.8	29.0	4.7	13.6	11.9	29.0	0.0	1.0	10.9	27.9	30.0
Iceland	213	40.6	20.8	9.4	20.9	8.3	20.8	0.2	4.3	3.8	17.6	23.9
Iran, Islamic Rep.	414	35.1	15.8	10.9	26.1	12.1	15.8	1.9	2.1	8.1	14.1	18.0
Ireland	347	56.9	28.7	2.3	9.5	2.7	28.7	0.5	0.4	1.8	23.7	33.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	31.9	48.0	6.4	12.6	1.2	48.0	0.0	0.1	1.1	40.3	55.4
Korea	338	30.5	57.9	5.8	5.1	0.7	57.9	0.0	0.0	0.7	50.7	65.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	40.9	30.3	2.9	16.3	9.6	30.3	0.0	0.8	8.9	28.8	32.0
Netherlands	344	38.8	45.8	4.4	7.1	3.9	45.8	3.2	0.0	0.7	42.4	50.8
New Zealand	314	53.0	18.4	7.4	16.2	5.0	18.4	0.0	2.0	3.0	18.1	18.8
Norway	280	39.3	23.7	5.3	19.2	12.5	23.7	0.0	4.8	7.7	19.1	27.4
Portugal	330	33.6	19.9	9.6	22.1	14.8	19.9	0.0	5.3	9.5	23.4	16.6
Scotland	392	48.2	29.5	6.6	10.0	5.7	29.5	0.0	1.2	4.4	22.6	35.0
Singapore	875	22.7	53.2	8.5	13.2	2.4	53.2	0.0	0.2	2.2	49.8	56.0
Slovenia	320	34.6	30.5	3.5	20.5	10.9	30.5	0.4	1.1	9.4	31.5	29.5
Thailand	409	46.1	23.6	10.9	14.9	4.6	23.6	0.0	1.8	2.8	22.3	24.8
United States	469	47.2	30.7	5.7	12.8	3.5	30.7	0.2	0.3	3.0	24.0	36.3
INTERNATIONAL AVG	.	43.8	30.0	6.0	13.6	6.7	30.0	0.4	1.4	4.9	26.6	33.4

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J05 KEY: D
 Determine common operation between four pairs of numbers. (Patterns, Relations and Functions)
 Difficulty: 627

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	19.3	27.7	20.6	25.3	7.0	25.3	0.0	0.4	6.6	24.7	25.9
Austria	310	18.1	23.1	18.8	23.6	16.3	23.6	0.7	1.0	14.6	22.9	24.9
Canada	949	20.5	31.4	23.8	17.9	6.5	17.9	1.0	0.9	4.6	16.2	21.3
Cyprus	403	12.6	28.7	22.0	17.9	18.7	17.9	0.5	3.3	14.9	20.0	16.2
Czech Republic	400	11.4	19.5	18.7	38.1	12.4	38.1	0.4	0.6	11.4	40.0	36.0
England	383	14.6	41.1	18.0	19.1	7.2	19.1	0.0	0.6	6.6	18.6	19.7
Greece	380	12.8	26.5	19.4	14.2	27.2	14.2	0.8	2.4	23.9	14.3	14.2
Hong Kong	.	.	.	.	.	.	.	.	.	.	.	.
Hungary	383	6.4	23.9	22.4	39.9	7.4	39.9	0.0	1.2	6.3	40.1	40.0
Iceland	213	17.2	35.6	19.8	13.2	14.2	13.2	0.0	4.3	9.9	12.6	13.9
Iran, Islamic Rep.	414	15.3	19.9	24.4	18.3	22.2	18.3	2.7	2.7	16.8	21.1	14.8
Ireland	347	15.9	27.4	21.2	26.1	9.4	26.1	3.3	0.4	5.6	26.9	25.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	10.9	24.1	25.7	36.1	3.2	36.1	0.6	0.3	2.4	33.4	38.8
Korea	338	6.2	26.9	16.9	49.7	0.3	49.7	0.0	0.0	0.3	43.3	56.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	10.8	17.2	18.9	40.5	12.6	40.5	0.0	0.8	11.9	36.8	44.5
Netherlands	344	18.6	31.2	17.4	30.4	2.4	30.4	1.7	0.0	0.7	31.0	29.9
New Zealand	314	19.4	28.9	22.1	20.0	9.7	20.0	0.0	2.0	7.7	25.9	13.9
Norway	280	13.2	26.0	18.2	23.1	19.5	23.1	0.0	7.2	12.3	29.2	17.0
Portugal	329	10.6	17.9	21.9	23.3	26.3	23.3	0.0	6.4	20.0	29.7	17.4
Scotland	392	16.2	31.5	20.9	24.3	7.0	24.3	0.6	1.6	4.9	20.3	27.3
Singapore	875	13.6	18.2	20.5	45.1	2.7	45.1	0.0	0.4	2.4	44.6	45.4
Slovenia	320	15.9	23.1	16.8	33.5	10.7	33.5	0.6	1.1	9.0	35.4	31.8
Thailand	409	15.1	21.4	31.7	25.6	6.2	25.6	0.2	2.1	3.9	24.6	26.4
United States	469	17.6	26.0	24.4	26.7	5.4	26.7	0.2	0.3	4.8	27.4	26.1
INTERNATIONAL AVG	.	14.4	26.0	21.1	27.5	11.1	27.5	0.6	1.7	8.8	27.8	27.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J06 KEY: A
 Which of the following weight (mass) measures is the largest? (Measurement, Estimation, & Number Sense)
 Difficulty: 485

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	62.5	5.0	14.7	16.1	1.7	62.5	0.0	0.7	1.0	65.6	59.5
Austria	310	83.6	3.9	5.1	3.4	3.9	83.6	0.0	2.6	1.3	82.0	85.8
Canada	949	52.2	5.9	23.5	15.1	3.3	52.2	0.0	1.4	1.8	51.0	55.2
Cyprus	403	15.1	21.4	41.7	13.6	8.2	15.1	0.3	3.9	4.1	9.9	20.3
Czech Republic	400	73.0	5.2	2.8	15.6	3.4	73.0	0.2	0.9	2.3	69.5	76.7
England	383	54.1	7.6	20.6	14.0	3.7	54.1	0.0	0.6	3.1	48.8	60.1
Greece	380	59.0	3.1	22.4	4.8	10.6	59.0	0.0	3.9	6.7	60.6	57.9
Hong Kong	554	85.8	6.7	2.3	3.8	1.3	85.8	0.1	0.0	1.2	85.2	86.3
Hungary	383	76.3	2.5	6.4	10.8	4.0	76.3	0.0	2.0	2.0	70.6	83.0
Iceland	213	55.2	12.3	13.4	8.7	10.4	55.2	0.0	6.8	3.6	49.6	60.8
Iran, Islamic Rep.	414	47.4	8.7	29.2	6.2	8.4	47.4	1.1	3.7	3.6	41.2	55.5
Ireland	347	43.8	8.5	24.9	20.5	2.3	43.8	0.0	0.7	1.6	40.2	47.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	89.6	3.6	1.6	3.4	1.7	89.6	0.0	0.7	1.0	88.7	90.4
Korea	338	81.0	1.3	6.1	11.6	0.0	81.0	0.0	0.0	0.0	76.0	86.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	64.3	19.8	5.6	8.0	2.3	64.3	0.0	0.8	1.6	66.0	62.4
Netherlands	344	85.4	0.8	4.5	7.4	1.9	85.4	1.1	0.0	0.7	85.1	85.5
New Zealand	314	47.3	5.8	23.5	17.2	6.1	47.3	0.0	3.1	3.0	45.7	49.0
Norway	280	51.7	6.5	16.9	13.8	11.1	51.7	0.0	8.4	2.8	49.7	52.1
Portugal	330	48.0	4.3	21.2	15.6	10.8	48.0	0.0	7.4	3.5	43.5	52.3
Scotland	392	38.9	10.4	31.7	14.3	4.6	38.9	0.2	1.6	2.9	32.5	44.8
Singapore	875	63.8	4.9	25.6	4.6	1.1	63.8	0.0	0.4	0.7	61.6	65.6
Slovenia	320	74.8	4.4	5.1	9.8	5.9	74.8	0.0	1.5	4.4	72.5	77.0
Thailand	409	64.5	7.5	11.8	11.7	4.5	64.5	0.4	2.3	1.8	61.6	67.1
United States	469	50.2	8.4	25.1	13.1	3.2	50.2	0.0	0.5	2.8	45.0	54.5
INTERNATIONAL AVG	.	61.2	7.0	16.1	11.0	4.8	61.2	0.1	2.2	2.4	58.4	64.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J07 KEY: D
 Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded? (Fractions and Proportionality)
 Difficulty: 547

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	30.8	9.3	4.2	54.4	1.3	54.4	0.0	0.7	0.6	57.9	51.0
Austria	310	36.0	24.2	10.6	13.0	16.3	13.0	0.2	2.6	13.5	16.1	9.3
Canada	949	33.0	16.5	4.4	43.1	2.9	43.1	0.1	1.5	1.3	40.1	46.4
Cyprus	403	15.0	6.7	4.0	67.1	7.2	67.1	0.8	4.3	2.1	67.4	67.3
Czech Republic	400	45.7	20.5	6.9	14.2	12.8	14.2	2.3	1.3	9.2	14.2	14.1
England	383	38.4	17.7	9.3	31.4	3.3	31.4	0.0	0.6	2.7	33.8	28.6
Greece	380	32.0	11.7	8.8	27.0	20.5	27.0	0.5	4.7	15.3	26.9	26.9
Hong Kong	554	1.5	2.8	1.7	93.0	1.0	93.0	0.1	0.3	0.6	92.2	93.5
Hungary	383	34.6	24.0	7.8	26.3	7.3	26.3	0.0	2.1	5.2	27.1	25.7
Iceland	213	39.8	17.1	14.0	18.1	11.0	18.1	0.0	6.8	4.2	19.2	17.0
Iran, Islamic Rep.	414	17.8	13.0	15.1	36.9	17.2	36.9	1.1	3.9	12.3	33.5	41.4
Ireland	347	24.1	13.8	5.9	53.5	2.7	53.5	0.0	0.7	2.0	61.7	45.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	9.1	9.9	1.9	78.2	0.9	78.2	0.2	0.7	0.0	83.2	73.5
Korea	338	4.5	9.4	0.6	85.5	0.0	85.5	0.0	0.0	0.0	86.1	84.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	41.4	16.7	12.2	18.2	11.6	18.2	0.0	0.8	10.9	17.6	18.8
Netherlands	344	43.0	16.5	6.6	29.9	4.0	29.9	3.3	0.0	0.7	32.8	26.2
New Zealand	314	30.1	19.6	7.4	36.2	6.7	36.2	0.0	3.1	3.7	40.5	31.8
Norway	280	31.1	25.5	15.6	10.4	17.3	10.4	0.0	8.4	9.0	14.0	7.2
Portugal	330	36.5	19.3	11.0	14.8	18.4	14.8	0.0	7.9	10.6	16.9	12.8
Scotland	392	30.3	18.8	6.9	39.9	4.1	39.9	0.0	1.6	2.5	41.0	38.3
Singapore	875	3.1	2.8	1.7	91.5	0.8	91.5	0.0	0.4	0.4	93.5	89.9
Slovenia	320	42.9	20.4	7.7	20.2	8.9	20.2	0.0	1.5	7.4	19.5	20.9
Thailand	409	24.7	13.0	7.7	50.9	3.7	50.9	0.4	2.6	0.6	50.1	51.6
United States	469	20.8	10.5	2.1	63.3	3.3	63.3	0.3	0.5	2.5	58.7	67.1
INTERNATIONAL AVG	.	27.8	15.0	7.3	42.4	7.6	42.4	0.4	2.4	4.9	43.5	41.2

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J08 KEY: C
 Word problem: best estimate of $57 + 62 + 59$. (Measurement, Estimation, & Number Sense)
 Difficulty: 591

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	12.5	18.0	41.3	24.6	3.6	41.3	0.0	0.8	2.8	44.5	38.1
Austria	310	9.1	17.3	35.9	22.4	15.2	35.9	0.5	3.9	10.8	33.9	38.9
Canada	949	13.1	20.8	39.8	21.9	4.5	39.8	0.0	1.9	2.5	36.9	44.1
Cyprus	403	9.9	16.6	29.2	25.1	19.2	29.2	0.7	5.4	13.1	28.1	30.2
Czech Republic	400	4.7	26.5	38.4	18.2	12.2	38.4	0.4	2.6	9.2	37.8	39.2
England	383	15.1	21.7	28.1	28.2	6.9	28.1	0.0	0.8	6.1	27.9	28.3
Greece	380	11.8	22.5	23.0	18.5	24.2	23.0	0.7	5.3	18.3	20.4	26.1
Hong Kong	554	9.7	34.2	38.6	13.5	4.0	38.6	0.2	0.3	3.6	31.8	43.6
Hungary	383	7.5	21.5	42.6	20.5	7.9	42.6	0.0	2.4	5.5	42.1	45.3
Iceland	213	18.9	20.4	18.6	25.1	17.0	18.6	0.0	9.2	7.8	16.4	20.7
Iran, Islamic Rep.	414	12.1	18.8	14.2	35.2	19.7	14.2	1.5	5.8	12.4	14.2	14.1
Ireland	347	8.7	18.7	36.1	30.4	6.2	36.1	1.2	1.6	3.3	31.3	40.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	9.4	26.9	40.4	21.2	2.2	40.4	0.2	0.7	1.3	36.2	44.4
Korea	338	9.2	31.9	49.1	9.8	0.0	49.1	0.0	0.0	0.0	47.0	51.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	11.0	24.9	31.4	17.8	14.9	31.4	0.0	1.9	13.0	33.9	28.6
Netherlands	344	9.2	25.1	37.6	24.2	4.0	37.6	3.3	0.0	0.7	36.5	39.1
New Zealand	314	13.5	22.6	25.6	30.8	7.5	25.6	0.0	3.1	4.5	24.7	26.6
Norway	280	9.4	14.1	31.5	26.7	18.3	31.5	0.3	9.4	8.6	29.0	34.1
Portugal	330	8.9	13.7	24.1	31.7	21.6	24.1	0.0	9.5	12.1	21.7	26.4
Scotland	392	10.9	23.2	29.3	29.7	6.9	29.3	0.0	1.6	5.3	29.1	29.8
Singapore	875	9.8	26.5	39.2	22.4	2.1	39.2	0.0	0.4	1.7	38.8	39.6
Slovenia	320	8.4	25.5	25.8	27.7	12.6	25.8	0.3	1.5	10.8	27.3	24.4
Thailand	409	16.6	24.1	23.2	29.4	6.7	23.2	0.4	2.6	3.7	24.4	22.2
United States	469	13.0	17.5	50.1	14.5	5.0	50.1	0.0	0.5	4.5	51.5	48.9
INTERNATIONAL AVG	.	10.9	22.2	33.1	23.7	10.1	33.1	0.4	3.0	6.7	31.9	34.4

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: J09 KEY: D
 Given chart with consecutive numbers in rows, extend pattern to find the number in square. (Whole Numbers)
 Difficulty: 460

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	589	5.4	5.3	9.0	76.0	4.3	76.0	0.0	0.8	3.6	81.4	70.6
Austria	310	8.0	4.4	8.2	70.0	9.5	70.0	0.2	5.2	4.2	77.3	60.8
Canada	949	10.0	4.1	9.7	70.5	5.7	70.5	0.0	2.1	3.6	74.2	70.9
Cyprus	403	7.5	7.8	14.7	53.7	16.3	53.7	0.5	8.1	7.8	56.7	51.1
Czech Republic	400	8.9	7.2	9.9	60.9	13.1	60.9	2.3	3.5	7.2	64.7	56.8
England	383	8.1	4.4	10.7	72.7	4.1	72.7	0.0	0.8	3.2	67.7	78.4
Greece	380	10.6	4.5	13.7	52.7	18.5	52.7	0.6	5.8	12.2	60.0	44.7
Hong Kong	554	9.0	3.4	8.0	76.8	2.8	76.8	0.3	0.5	2.0	79.0	75.2
Hungary	383	6.8	6.8	8.2	64.7	13.5	64.7	0.0	3.4	10.1	71.8	61.3
Iceland	213	13.1	8.8	21.7	42.9	13.5	42.9	0.0	9.2	4.3	42.3	43.5
Iran, Islamic Rep.	414	16.6	12.7	17.4	31.9	21.4	31.9	1.3	7.1	13.0	30.7	33.4
Ireland	347	4.1	4.8	7.9	78.0	5.1	78.0	0.2	1.6	3.4	80.2	76.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	6.2	2.8	7.3	82.6	1.1	82.6	0.0	0.7	0.4	80.1	85.0
Korea	338	3.2	1.3	5.1	89.8	0.6	89.8	0.0	0.0	0.6	91.6	87.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	20.8	6.6	7.2	53.2	12.2	53.2	0.0	2.8	9.4	59.6	46.1
Netherlands	344	5.2	2.1	8.1	81.6	3.0	81.6	2.3	0.0	0.7	84.1	79.1
New Zealand	314	13.2	6.6	15.0	57.0	8.2	57.0	0.0	3.4	4.8	60.4	53.5
Norway	280	10.0	6.2	14.6	49.3	19.8	49.3	0.0	11.1	8.7	54.3	44.4
Portugal	330	8.9	4.7	17.0	46.8	22.5	46.8	0.0	10.5	12.0	44.6	48.9
Scotland	392	7.3	4.4	9.9	72.8	5.6	72.8	0.2	1.7	3.7	70.9	74.1
Singapore	875	7.6	4.1	7.6	79.5	1.1	79.5	0.0	0.4	0.7	80.2	79.0
Slovenia	320	10.3	3.5	9.2	70.6	6.4	70.6	0.3	1.8	4.3	71.6	69.6
Thailand	409	14.6	11.8	30.1	36.4	7.1	36.4	0.4	3.4	3.4	35.7	37.1
United States	469	7.4	3.5	11.5	73.5	4.2	73.5	0.0	0.6	3.6	69.0	77.2
INTERNATIONAL AVG	.	9.3	5.5	11.7	64.3	9.2	64.3	0.3	3.5	5.3	66.2	62.7

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K01 KEY: A
 Shown figure with overlapping shapes, which number is in square and circle, but not in triangle? (Geometry)
 Difficulty: 509

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	62.9	9.1	7.5	16.2	4.3	62.9	0.0	0.1	4.2	66.2	59.4
Austria	310	56.8	9.3	7.6	15.2	11.1	56.8	6.9	0.0	4.2	53.7	59.9
Canada	949	66.1	7.0	6.0	13.5	7.4	66.1	4.8	0.5	2.1	64.4	66.4
Cyprus	418	45.6	13.8	8.7	16.7	15.3	45.6	8.8	0.7	5.8	47.8	43.6
Czech Republic	414	78.0	7.5	2.6	5.4	6.4	78.0	4.7	0.2	1.5	79.7	76.2
England	381	69.1	5.7	3.1	13.8	8.3	69.1	0.0	0.0	8.3	68.8	69.4
Greece	370	46.1	5.4	10.4	14.5	23.6	46.1	17.4	0.5	5.7	43.6	48.5
Hong Kong	535	55.7	9.4	9.6	20.2	5.0	55.7	3.8	0.1	1.0	55.8	55.6
Hungary	380	64.5	6.6	7.9	15.1	5.9	64.5	0.0	2.8	3.1	65.5	63.1
Iceland	208	47.1	12.2	10.4	17.1	13.1	47.1	7.4	1.9	3.8	53.4	41.1
Iran, Islamic Rep.	420	38.8	11.7	11.7	16.6	21.2	38.8	12.5	1.0	7.7	41.2	36.1
Ireland	363	54.3	8.8	8.9	17.3	10.7	54.3	8.8	0.0	1.9	62.3	46.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	50.3	7.9	9.3	28.1	4.3	50.3	3.8	0.0	0.5	52.3	48.4
Korea	349	34.1	22.2	18.0	24.6	1.1	34.1	0.0	0.0	1.1	31.9	36.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	45.4	7.9	10.3	21.2	15.2	45.4	0.0	0.6	14.6	44.7	46.3
Netherlands	347	61.1	8.3	5.5	14.2	10.8	61.1	10.8	0.0	0.0	62.3	61.1
New Zealand	312	65.9	7.5	5.7	14.4	6.5	65.9	0.0	1.0	5.5	71.8	58.4
Norway	278	40.2	12.5	15.3	15.6	16.4	40.2	4.7	1.6	10.0	39.3	41.4
Portugal	340	49.0	8.4	8.6	18.2	15.8	49.0	0.0	1.9	13.9	48.8	49.2
Scotland	403	62.2	10.1	4.3	13.7	9.6	62.2	6.7	0.2	2.7	63.0	61.0
Singapore	882	53.5	17.2	10.8	16.9	1.6	53.5	0.0	0.3	1.3	56.5	50.9
Slovenia	306	57.6	5.9	4.9	16.2	15.3	57.6	7.3	0.7	7.3	58.2	57.1
Thailand	374	46.0	9.7	13.2	28.1	3.0	46.0	0.0	1.0	2.1	50.7	40.6
United States	486	62.6	10.3	6.5	16.5	4.0	62.6	1.8	0.1	2.2	68.1	56.8
INTERNATIONAL AVG	.	54.7	9.8	8.6	17.1	9.8	54.7	4.6	0.6	4.6	56.2	53.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

THIRD INTERNATIONAL MATHEMATICS AND SCIENCE STUDY - 1995 ASSESSMENT
 Percent of responses by Math Item Categories - THIRD GRADE

May 14, 1998 57

Item: K02 KEY: C
 Add: 6971 + 5291 (Whole Numbers)
 Difficulty: 429

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	15.1	11.9	58.8	10.7	3.5	58.8	0.0	0.3	3.2	55.9	61.9
Austria	310	5.9	8.2	80.5	1.4	3.9	80.5	0.3	0.0	3.6	83.9	77.4
Canada	949	13.0	9.5	67.7	5.5	4.2	67.7	0.0	0.6	3.6	68.3	66.3
Cyprus	418	6.5	12.5	72.7	3.4	4.8	72.7	0.3	0.7	3.8	73.4	72.2
Czech Republic	414	9.2	10.3	75.2	1.8	3.6	75.2	0.5	0.5	2.6	76.1	74.3
England	381	20.0	17.7	43.1	13.1	6.1	43.1	0.0	0.0	6.1	47.5	38.5
Greece	370	8.1	14.7	56.9	4.2	16.1	56.9	0.2	0.5	15.5	53.0	60.6
Hong Kong	535	3.1	6.8	88.5	0.3	1.3	88.5	0.0	0.1	1.2	93.3	84.2
Hungary	380	6.3	8.7	76.7	2.3	6.0	76.7	0.0	2.8	3.2	76.3	77.1
Iceland	208	25.0	21.6	28.4	14.9	10.1	28.4	0.5	2.2	7.4	34.5	22.6
Iran, Islamic Rep.	420	5.0	8.4	71.0	6.5	9.1	71.0	0.3	1.0	7.8	76.7	64.6
Ireland	363	8.2	14.0	71.1	3.5	3.2	71.1	0.9	0.2	2.1	81.2	61.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	3.2	7.9	87.9	0.9	0.2	87.9	0.0	0.0	0.2	88.0	87.8
Korea	349	1.1	3.7	94.9	0.3	0.0	94.9	0.0	0.0	0.0	97.7	92.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	17.3	16.3	36.3	12.5	17.6	36.3	0.0	0.6	17.0	35.8	36.8
Netherlands	347	15.3	13.7	57.0	12.5	1.5	57.0	1.5	0.0	0.0	57.5	57.0
New Zealand	312	21.4	16.6	46.6	12.6	2.7	46.6	0.0	1.0	1.8	45.2	48.1
Norway	278	14.7	16.4	41.6	11.1	16.1	41.6	0.0	2.7	13.5	43.1	38.5
Portugal	340	6.7	7.2	76.8	2.7	6.6	76.8	0.0	2.2	4.5	73.4	80.1
Scotland	403	17.8	15.7	48.2	13.7	4.6	48.2	0.0	0.2	4.5	52.6	42.4
Singapore	882	2.1	4.2	91.0	1.4	1.3	91.0	0.0	0.3	1.1	91.9	90.2
Slovenia	306	9.6	9.1	71.9	1.9	7.5	71.9	0.0	0.7	6.8	68.8	74.8
Thailand	374	4.4	9.7	79.1	4.0	2.8	79.1	0.0	1.5	1.3	78.8	79.2
United States	486	10.1	8.4	74.5	4.6	2.4	74.5	0.0	0.1	2.4	78.5	70.3
INTERNATIONAL AVG	.	10.4	11.4	66.5	6.1	5.6	66.5	0.2	0.8	4.7	68.0	65.0

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K03 KEY: D
 Which pair of numbers follows the rule 'multiply by 5'? (Patterns, Relations and Functions)
 Difficulty: 589

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	23.2	15.7	15.2	37.2	8.7	37.2	0.0	0.3	8.4	39.5	34.8
Austria	310	28.6	15.1	10.8	26.4	19.2	26.4	1.2	0.0	18.0	21.8	30.6
Canada	949	28.4	17.3	11.3	34.5	8.5	34.5	1.2	0.6	6.7	32.1	37.7
Cyprus	418	24.8	13.2	11.3	28.8	21.9	28.8	1.8	0.7	19.5	32.9	25.0
Czech Republic	414	29.0	10.3	4.6	40.3	15.7	40.3	3.7	0.5	11.5	40.5	40.1
England	381	23.1	21.1	11.9	30.7	13.2	30.7	0.0	0.0	13.2	32.6	28.6
Greece	370	15.1	10.3	7.2	24.8	42.6	24.8	2.1	1.0	39.5	22.2	27.3
Hong Kong	535	23.0	6.2	5.9	58.0	6.8	58.0	3.3	0.5	3.0	57.1	58.7
Hungary	380	21.5	8.7	7.5	52.0	10.3	52.0	0.0	2.8	7.5	50.8	56.3
Iceland	208	26.0	18.1	13.9	27.8	14.3	27.8	1.1	3.0	10.2	29.5	26.2
Iran, Islamic Rep.	420	28.7	14.1	10.7	28.4	18.1	28.4	2.5	1.8	13.8	26.4	30.6
Ireland	363	24.3	14.9	14.1	34.3	12.5	34.3	5.9	0.2	6.3	33.9	34.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	21.1	15.0	8.7	52.8	2.4	52.8	1.2	0.0	1.2	52.1	53.5
Korea	349	22.5	9.1	4.7	63.7	0.0	63.7	0.0	0.0	0.0	62.2	65.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	29.2	3.8	6.7	40.9	19.4	40.9	0.0	1.4	17.9	44.1	37.4
Netherlands	347	35.2	21.4	13.7	21.3	8.3	21.3	8.3	0.0	0.0	23.3	20.2
New Zealand	312	18.7	22.8	19.8	31.1	7.7	31.1	0.0	1.0	6.7	32.6	29.4
Norway	278	15.3	22.8	10.2	24.3	27.4	24.3	0.5	3.2	23.7	18.6	29.1
Portugal	340	16.2	12.3	7.2	36.9	27.5	36.9	0.0	2.4	25.0	39.5	34.3
Scotland	403	22.6	17.4	13.6	32.3	14.2	32.3	3.1	0.5	10.5	30.2	34.4
Singapore	882	26.0	9.8	10.4	51.0	2.9	51.0	0.0	0.3	2.6	49.6	51.9
Slovenia	306	33.1	6.9	7.4	37.8	14.8	37.8	1.5	0.7	12.6	33.4	41.9
Thailand	374	29.3	13.1	18.2	34.2	5.2	34.2	0.0	1.5	3.6	36.4	31.4
United States	486	28.2	14.1	6.5	44.9	6.2	44.9	0.6	0.1	5.5	41.0	49.1
INTERNATIONAL AVG	.	24.7	13.9	10.5	37.3	13.6	37.3	1.6	0.9	11.1	36.8	37.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K04 KEY: A

Add points from various rounds of a game to determine who won game and by how much. (Data Rep., Analysis and Probability)

Difficulty: 595

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	40.5	20.1	13.1	21.4	4.9	40.5	0.0	0.3	4.7	37.7	43.5
Austria	310	46.8	16.6	7.9	20.8	7.9	46.8	0.9	0.6	6.4	42.8	50.7
Canada	949	31.1	21.9	13.8	27.9	5.3	31.1	2.2	0.8	2.4	28.4	32.8
Cyprus	418	10.7	15.2	8.9	52.9	12.4	10.7	2.6	0.7	9.2	6.6	14.7
Czech Republic	414	50.9	14.6	10.9	14.8	8.9	50.9	3.2	0.8	4.9	53.0	48.7
England	381	36.0	16.7	15.2	26.2	5.9	36.0	0.0	0.0	5.9	35.8	36.3
Greece	370	23.7	13.2	12.6	32.1	18.4	23.7	4.1	1.2	13.1	18.3	28.9
Hong Kong	535	47.9	15.3	13.3	19.3	4.2	47.9	1.5	0.5	2.2	46.2	49.3
Hungary	380	29.7	15.8	12.5	32.7	9.4	29.7	0.0	3.1	6.3	31.7	27.2
Iceland	208	21.9	18.5	11.1	32.7	15.8	21.9	2.0	4.3	9.5	17.9	25.8
Iran, Islamic Rep.	.	.	.	.	.	.	.	.	.	.	.	.
Ireland	363	40.8	16.6	11.9	26.6	4.2	40.8	2.1	0.2	1.8	39.1	42.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	49.6	16.7	17.0	14.9	1.8	49.6	1.0	0.2	0.5	50.6	48.7
Korea	349	33.9	50.7	7.7	7.7	0.0	33.9	0.0	0.0	0.0	28.5	39.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	28.6	9.4	18.0	32.4	11.6	28.6	0.0	1.8	9.8	31.6	25.3
Netherlands	347	50.3	13.0	14.3	19.3	3.1	50.3	3.1	0.0	0.0	44.3	54.9
New Zealand	312	28.5	16.0	19.7	31.6	4.2	28.5	0.0	1.0	3.3	26.9	30.6
Norway	278	19.8	12.2	10.5	35.8	21.7	19.8	2.8	4.8	14.1	17.4	22.2
Portugal	340	18.4	19.4	5.7	30.7	25.8	18.4	0.0	4.5	21.2	15.9	20.8
Scotland	403	29.8	17.6	11.6	33.8	7.2	29.8	2.0	0.5	4.6	23.7	37.1
Singapore	882	50.1	19.0	11.9	16.3	2.7	50.1	0.0	0.3	2.4	52.9	47.8
Slovenia	306	49.2	14.7	11.1	18.7	6.4	49.2	0.5	0.7	5.2	42.3	55.7
Thailand	374	23.7	23.5	12.5	36.5	3.8	23.7	0.0	1.5	2.2	28.5	18.5
United States	486	31.4	27.1	15.1	23.2	3.2	31.4	0.4	0.1	2.8	31.1	31.6
INTERNATIONAL AVG	.	34.5	18.4	12.4	26.4	8.2	34.5	1.2	1.2	5.8	32.7	36.2

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: K05 KEY: B
 About how many centimeters is this picture of a pencil? (Measurement, Estimation, & Number Sense)
 Difficulty: 450

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	6.6	68.2	19.3	4.9	1.1	68.2	0.0	0.5	0.6	65.7	70.9
Austria	310	6.3	77.4	7.6	6.4	2.2	77.4	0.0	0.8	1.4	73.9	81.1
Canada	949	11.9	66.3	14.6	5.3	1.9	66.3	0.0	0.8	1.1	63.4	70.7
Cyprus	418	12.7	70.5	7.5	4.8	4.4	70.5	0.0	0.7	3.8	69.8	71.4
Czech Republic	414	7.1	79.0	8.6	4.5	0.8	79.0	0.0	0.8	0.0	75.7	82.4
England	381	7.3	65.9	20.0	5.8	1.0	65.9	0.0	0.3	0.7	65.0	66.8
Greece	370	17.3	58.4	11.8	8.6	3.9	58.4	0.0	1.4	2.5	57.9	58.9
Hong Kong	535	3.7	89.1	3.2	0.3	3.7	89.1	0.0	0.5	3.2	89.1	89.0
Hungary	379	15.5	61.3	12.7	6.5	4.0	61.3	0.0	3.1	0.9	59.5	64.5
Iceland	208	12.2	59.0	11.7	6.9	10.2	59.0	0.5	5.9	3.8	57.7	60.3
Iran, Islamic Rep.	420	12.9	50.7	15.7	11.4	9.3	50.7	0.5	2.9	5.9	50.5	50.9
Ireland	363	19.5	63.6	10.9	4.4	1.6	63.6	0.0	0.2	1.4	69.4	58.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	6.7	84.1	7.4	1.5	0.3	84.1	0.1	0.2	0.0	84.0	84.3
Korea	349	7.3	84.1	5.9	2.6	0.0	84.1	0.0	0.0	0.0	80.9	87.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	3.6	83.1	6.2	4.1	3.1	83.1	0.0	1.8	1.2	83.5	82.6
Netherlands	347	4.9	63.3	21.7	9.9	0.3	63.3	0.3	0.0	0.0	64.0	62.8
New Zealand	312	13.3	63.9	13.2	8.1	1.5	63.9	0.0	1.0	0.5	64.8	62.5
Norway	278	7.3	65.2	14.4	6.0	7.1	65.2	0.0	5.1	2.0	58.1	71.1
Portugal	340	19.9	49.8	8.2	11.3	10.9	49.8	0.0	6.0	4.9	48.5	51.1
Scotland	403	12.2	64.9	15.4	5.7	1.8	64.9	0.0	1.1	0.8	63.2	66.8
Singapore	882	4.0	87.5	4.9	2.8	0.8	87.5	0.0	0.3	0.5	89.2	86.1
Slovenia	306	6.2	73.4	12.1	6.1	2.3	73.4	0.3	0.7	1.3	70.2	76.3
Thailand	374	18.2	71.7	3.2	3.4	3.4	71.7	0.4	1.5	1.5	75.3	67.7
United States	486	22.9	46.3	20.1	7.4	3.3	46.3	0.0	0.1	3.2	44.8	48.0
INTERNATIONAL AVG	.	10.8	68.6	11.5	5.8	3.3	68.6	0.1	1.5	1.7	67.7	69.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K06 KEY: C
 Extend pattern of figures to determine number of tiles in the sixth figure. (Patterns, Relations and Functions)
 Difficulty: 530

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	28.1	7.8	51.1	10.1	2.9	51.1	0.0	0.5	2.4	52.9	49.1
Austria	310	21.1	9.8	55.3	6.3	7.4	55.3	1.3	0.8	5.4	47.7	62.4
Canada	949	23.5	12.4	49.5	11.2	3.4	49.5	0.0	0.8	2.6	49.8	49.9
Cyprus	418	29.6	8.3	47.6	7.2	7.3	47.6	0.2	1.0	6.1	45.0	50.5
Czech Republic	414	17.0	6.0	64.3	9.2	3.5	64.3	0.7	0.8	1.9	65.3	63.2
England	381	28.5	7.6	50.1	11.8	2.1	50.1	0.0	0.3	1.8	49.9	50.4
Greece	370	20.5	12.6	44.1	8.1	14.8	44.1	0.0	1.4	13.4	41.5	46.6
Hong Kong	535	18.3	5.9	66.9	3.8	5.2	66.9	0.0	1.4	3.8	68.6	65.1
Hungary	380	22.2	5.8	50.5	13.8	7.6	50.5	0.0	4.0	3.5	51.4	50.9
Iceland	208	24.8	11.8	35.7	11.6	16.1	35.7	0.5	7.9	7.7	32.7	38.5
Iran, Islamic Rep.	420	21.7	13.7	35.6	14.5	14.4	35.6	0.4	3.1	10.9	32.5	38.9
Ireland	363	29.9	9.5	49.7	8.9	1.9	49.7	0.3	0.2	1.4	47.4	51.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	13.9	8.8	71.9	4.3	1.1	71.9	0.2	0.2	0.6	68.2	75.6
Korea	349	15.5	6.3	72.6	5.3	0.3	72.6	0.0	0.0	0.3	69.6	75.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	11.8	7.6	57.4	15.2	7.9	57.4	0.0	1.8	6.1	60.1	54.6
Netherlands	347	19.7	3.9	64.9	9.4	2.1	64.9	2.0	0.0	0.1	62.0	67.6
New Zealand	312	33.5	10.2	40.2	11.6	4.4	40.2	0.0	1.0	3.5	42.2	38.1
Norway	278	26.5	9.0	38.8	8.7	16.9	38.8	0.0	5.2	11.7	31.7	45.2
Portugal	340	23.3	5.0	42.4	9.8	19.5	42.4	0.0	6.9	12.6	35.4	49.3
Scotland	403	26.5	10.4	47.3	12.6	3.2	47.3	0.0	1.1	2.1	45.3	49.5
Singapore	882	21.8	5.7	66.4	5.2	1.0	66.4	0.0	0.3	0.7	67.4	65.7
Slovenia	306	17.2	10.9	54.9	10.3	6.7	54.9	0.0	0.7	6.0	50.6	58.9
Thailand	374	22.0	11.4	52.1	9.7	4.7	52.1	0.4	2.1	2.2	57.9	45.9
United States	486	29.9	8.9	48.0	9.8	3.4	48.0	0.0	0.2	3.2	46.1	49.9
INTERNATIONAL AVG	.	22.8	8.7	52.4	9.5	6.6	52.4	0.2	1.7	4.6	50.9	53.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K07 KEY: B

A 20 cm wire is formed into a rectangle with width 4cm. What is the length? (Measurement, Estimation, & Number Sense)

Difficulty: 709

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	15.9	24.1	29.7	26.5	3.8	24.1	0.0	1.5	2.3	23.4	24.8
Austria	310	17.8	25.1	19.2	29.1	8.8	25.1	0.2	0.8	7.8	21.7	28.3
Canada	949	16.2	19.3	27.3	33.1	4.1	19.3	0.0	1.0	3.2	20.1	20.0
Cyprus	418	26.6	25.4	18.6	18.5	10.9	25.4	0.2	1.6	9.0	22.5	28.4
Czech Republic	414	34.7	15.3	16.8	23.4	9.7	15.3	0.7	1.1	7.9	16.0	14.5
England	381	18.6	21.2	29.4	25.4	5.5	21.2	0.0	1.1	4.4	20.0	22.5
Greece	370	17.7	16.3	26.6	21.9	17.4	16.3	0.0	1.7	15.8	13.3	19.3
Hong Kong	535	26.9	20.1	19.9	27.9	5.3	20.1	0.0	1.5	3.8	16.6	22.7
Hungary	380	19.0	13.4	20.4	37.1	10.0	13.4	0.0	4.3	5.7	13.8	13.0
Iceland	208	9.8	20.7	26.7	19.2	23.6	20.7	0.5	9.3	13.8	21.2	20.1
Iran, Islamic Rep.	420	29.8	13.5	18.7	24.9	13.1	13.5	0.9	4.3	8.0	11.2	15.9
Ireland	363	16.5	25.3	30.0	24.1	4.0	25.3	0.0	0.2	3.8	25.5	25.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	27.1	33.3	17.8	20.5	1.3	33.3	0.0	0.2	1.1	31.7	34.9
Korea	349	27.5	36.7	10.2	25.6	0.0	36.7	0.0	0.0	0.0	33.5	39.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	34.4	18.7	18.7	20.6	7.7	18.7	0.0	2.2	5.5	19.1	18.3
Netherlands	347	23.6	31.0	22.5	21.6	1.3	31.0	1.3	0.0	0.0	32.3	29.7
New Zealand	312	17.5	25.2	31.7	22.5	3.1	25.2	0.0	1.8	1.3	26.2	24.1
Norway	278	8.1	18.4	28.9	23.5	21.0	18.4	0.4	7.8	12.9	15.9	21.5
Portugal	340	16.8	19.4	19.3	25.8	18.8	19.4	0.0	9.3	9.5	18.0	20.7
Scotland	403	17.6	26.4	29.0	22.5	4.5	26.4	0.2	1.2	3.1	29.1	23.1
Singapore	882	26.5	18.5	23.2	29.7	2.1	18.5	0.0	0.3	1.7	18.9	18.1
Slovenia	306	38.0	11.2	17.5	26.5	6.8	11.2	0.0	1.9	4.9	11.3	11.2
Thailand	374	21.7	12.4	24.7	35.3	6.0	12.4	0.4	2.5	3.1	10.1	14.9
United States	486	17.3	25.1	26.4	27.2	3.9	25.1	0.0	0.2	3.7	25.4	24.9
INTERNATIONAL AVG	.	21.9	21.5	23.0	25.5	8.0	21.5	0.2	2.3	5.5	20.7	22.3

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: K08 KEY: D
 Which of the following rectangles is not divided into 4 equal parts? (Geometry)
 Difficulty: 477

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	4.4	11.1	9.2	70.2	5.0	70.2	0.0	1.5	3.6	69.7	70.7
Austria	310	3.7	21.7	6.1	61.0	7.5	61.0	0.3	1.4	5.7	61.3	61.2
Canada	949	4.1	13.7	7.7	69.4	5.2	69.4	0.4	1.2	3.5	69.8	69.2
Cyprus	418	7.8	18.6	13.3	40.6	19.7	40.6	4.7	3.5	11.5	35.8	45.3
Czech Republic	414	4.6	14.4	7.9	63.2	9.8	63.2	2.6	2.0	5.2	68.4	57.9
England	381	3.7	11.8	13.7	64.4	6.3	64.4	0.0	1.5	4.8	66.2	62.5
Greece	370	8.1	23.3	13.8	29.3	25.6	29.3	3.4	2.6	19.6	27.3	31.2
Hong Kong	535	7.3	10.1	8.9	61.5	12.3	61.5	2.7	1.5	8.1	58.2	65.0
Hungary	380	3.7	11.1	13.3	55.4	16.6	55.4	0.4	5.8	10.4	56.3	53.3
Iceland	208	3.4	11.2	7.5	52.2	25.8	52.2	0.0	11.5	14.3	52.0	52.4
Iran, Islamic Rep.	420	15.8	12.4	14.7	33.5	23.6	33.5	7.9	4.7	11.1	34.2	32.6
Ireland	363	4.0	22.0	8.0	56.3	9.7	56.3	1.9	1.2	6.6	59.8	53.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	3.7	12.2	8.4	71.9	3.7	71.9	1.1	0.5	2.1	74.2	69.7
Korea	349	3.4	11.3	2.0	83.3	0.0	83.3	0.0	0.0	0.0	83.6	83.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	6.3	10.4	16.2	58.3	8.8	58.3	0.0	2.2	6.6	58.2	58.5
Netherlands	347	1.2	14.2	4.4	77.7	2.5	77.7	2.5	0.0	0.0	84.9	71.9
New Zealand	312	5.8	12.5	12.1	57.4	12.2	57.4	0.0	1.8	10.3	61.0	52.7
Norway	278	4.6	24.6	5.9	37.8	27.1	37.8	2.0	11.5	13.6	38.5	38.9
Portugal	340	5.8	21.7	11.2	37.2	24.1	37.2	0.0	9.9	14.2	41.4	33.0
Scotland	403	3.7	10.9	7.7	71.4	6.3	71.4	0.5	1.5	4.3	68.7	74.6
Singapore	882	2.6	6.3	4.9	83.0	3.2	83.0	0.0	0.4	2.8	85.9	80.5
Slovenia	306	4.3	8.2	5.1	72.4	10.0	72.4	2.6	2.2	5.2	69.9	74.8
Thailand	374	13.5	8.3	10.7	53.9	13.5	53.9	0.4	3.1	10.0	55.0	52.8
United States	486	3.1	15.3	7.6	68.4	5.7	68.4	0.0	0.2	5.5	69.0	67.8
INTERNATIONAL AVG	.	5.3	14.1	9.2	59.6	11.8	59.6	1.4	3.0	7.5	60.4	58.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: K09 KEY: B
 54 marbles are equally divided into 6 bags. How many marbles in 2 bags? (Fractions and Proportionality)
 Difficulty: 638

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	29.9	34.1	7.3	14.0	11.2	3.5	34.1	0.0	1.5	2.0	35.7	32.4
Austria	310	22.1	29.3	6.0	13.7	18.2	10.8	29.3	0.3	1.4	9.1	31.3	27.8
Canada	949	35.1	21.5	7.9	13.7	18.0	3.8	21.5	0.0	1.6	2.2	23.6	19.9
Cyprus	418	56.3	15.5	4.2	5.0	6.9	12.2	15.5	0.6	3.9	7.6	16.6	14.5
Czech Republic	414	15.6	40.0	1.9	16.2	18.7	7.7	40.0	0.9	2.0	4.8	43.0	36.9
England	381	21.6	36.2	8.7	15.7	11.9	5.8	36.2	0.0	1.5	4.3	37.1	35.4
Greece	370	41.4	21.3	4.4	5.5	7.3	20.1	21.3	0.8	3.1	16.1	23.5	19.1
Hong Kong	535	43.7	32.5	3.2	2.8	13.3	4.6	32.5	0.1	1.5	2.9	33.2	31.5
Hungary	380	30.8	23.9	5.2	15.5	13.5	11.0	23.9	0.0	5.8	5.3	25.9	21.0
Iceland	208	49.1	11.8	4.5	10.7	5.3	18.6	11.8	0.6	13.0	5.1	8.2	15.3
Iran, Islamic Rep.	420	30.0	11.6	10.7	13.5	19.5	14.6	11.6	1.0	6.1	7.6	7.9	15.8
Ireland	363	30.3	26.4	3.3	23.4	11.8	4.9	26.4	0.5	1.2	3.2	23.1	29.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	538	23.4	34.5	6.4	12.7	20.8	2.3	34.5	0.3	0.6	1.4	34.9	34.0
Korea	349	15.1	31.9	4.8	16.5	29.8	1.7	31.9	0.0	0.0	1.7	33.6	30.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	248	29.5	37.0	2.9	5.1	16.4	9.1	37.0	0.0	2.5	6.7	36.1	37.9
Netherlands	347	24.6	33.5	4.8	21.8	12.8	2.5	33.5	1.7	0.0	0.8	30.8	36.0
New Zealand	312	27.0	29.4	11.7	12.5	13.2	6.2	29.4	0.0	2.2	4.0	33.0	24.4
Norway	278	58.6	9.2	3.8	4.8	3.6	20.0	9.2	0.0	12.4	7.6	4.8	12.9
Portugal	340	36.3	15.5	4.5	10.2	13.6	19.9	15.5	0.0	10.8	9.0	16.6	14.5
Scotland	403	29.6	26.4	8.1	15.8	14.4	5.8	26.4	0.0	1.5	4.2	26.4	26.6
Singapore	882	16.6	56.7	5.7	7.2	11.7	2.0	56.7	0.0	0.4	1.6	56.4	56.9
Slovenia	306	26.2	28.3	3.8	8.0	27.2	6.5	28.3	0.0	2.4	4.0	26.9	29.7
Thailand	374	30.1	24.6	7.1	12.4	17.7	8.1	24.6	0.4	3.1	4.6	26.4	22.5
United States	486	34.2	23.8	7.6	15.0	12.8	6.6	23.8	0.0	0.2	6.4	21.9	25.8
INTERNATIONAL AVG	.	31.5	27.3	5.8	12.1	14.6	8.7	27.3	0.3	3.3	5.1	27.4	27.1

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L01
 Given graph showing numbers of trees, how many trees does each symbol represent? (Data Rep., Analysis and Probability)
 Difficulty: 601

COUNTRY	N	10	70	71	72	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
										REACH		% Right	% Right
										ED			
Australia	593	35.1	21.1	4.2	7.0	21.4	0.4	10.9	35.1	0.0	10.9	32.3	38.1
Austria	318	30.5	9.4	0.4	11.4	15.1	8.8	24.4	30.5	0.2	24.2	24.5	35.6
Canada	966	31.9	17.0	2.6	11.0	23.9	2.6	10.9	31.9	1.1	9.8	31.9	30.9
Cyprus	429	40.0	12.7	1.9	3.9	22.5	0.4	18.6	40.0	0.6	18.0	33.7	46.7
Czech Republic	408	29.2	14.5	7.3	12.6	17.9	1.5	17.2	29.2	1.1	16.1	22.7	35.3
England	390	30.7	21.8	2.0	7.2	20.0	5.9	12.4	30.7	0.6	11.9	26.4	35.0
Greece	378	21.4	15.8	1.1	12.9	17.3	1.1	30.5	21.4	0.9	29.7	23.8	18.4
Hong Kong	548	58.6	7.3	3.2	7.5	16.0	3.2	4.2	58.6	0.2	4.0	59.9	57.6
Hungary	383	23.5	20.0	2.4	20.5	14.7	7.8	11.1	23.5	1.6	9.5	22.7	24.4
Iceland	214	43.9	12.1	2.3	6.4	16.2	0.8	18.2	43.9	2.6	15.5	34.5	55.1
Iran, Islamic Rep.	419	8.6	21.6	4.2	6.8	15.2	3.5	39.9	8.6	3.1	36.8	10.4	6.3
Ireland	368	31.7	23.3	2.0	8.0	23.1	5.6	6.3	31.7	0.0	6.3	31.0	32.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	85.4	1.8	1.6	0.6	9.3	0.3	0.9	85.4	0.2	0.7	85.7	85.1
Korea	347	40.3	19.8	1.3	18.9	18.5	0.8	0.5	40.3	0.0	0.5	35.7	45.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	250	19.8	5.2	2.0	13.7	33.1	0.7	25.6	19.8	0.4	25.2	19.5	20.1
Netherlands	354	29.7	7.0	5.8	9.7	40.5	0.5	6.8	29.7	0.0	6.8	25.2	33.5
New Zealand	311	26.2	21.0	3.5	9.3	27.0	0.5	12.4	26.2	0.6	11.8	24.8	27.8
Norway	269	20.1	14.5	2.3	4.8	25.7	3.9	28.6	20.1	4.4	24.2	18.2	19.6
Portugal	334	21.3	21.2	2.6	7.9	15.4	1.3	30.2	21.3	1.6	28.6	23.0	19.5
Scotland	393	35.4	14.1	3.1	8.6	29.2	2.4	7.2	35.4	0.0	7.2	36.1	33.6
Singapore	871	62.7	6.6	1.2	4.6	22.2	1.2	1.5	62.7	0.2	1.3	63.9	61.6
Slovenia	323	32.9	16.4	5.4	8.1	22.8	3.6	10.9	32.9	0.2	10.7	25.5	39.6
Thailand	344	26.6	18.5	7.5	2.8	30.4	2.9	11.2	26.6	0.2	11.0	32.0	21.3
United States	487	40.5	16.8	3.9	5.2	30.2	0.7	2.8	40.5	0.0	2.8	42.7	38.3
INTERNATIONAL AVG	.	34.4	15.0	3.1	8.7	22.0	2.5	14.3	34.4	0.8	13.5	32.8	35.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: L02 KEY: A

Given bags containing different numbers of marbles, determine greatest chance of choosing red marble. (Data Rep., Analysis and Probability)

Difficulty: 585

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	51.8	4.9	25.7	16.0	1.6	51.8	0.0	0.4	1.2	53.6	50.0
Austria	318	38.4	4.2	24.4	28.2	4.7	38.4	0.1	0.7	3.9	33.7	42.4
Canada	966	48.9	4.8	26.1	15.5	4.7	48.9	0.8	1.9	2.0	48.7	50.0
Cyprus	429	19.5	8.2	46.3	20.3	5.7	19.5	0.2	0.8	4.6	15.3	22.9
Czech Republic	408	41.9	4.5	17.5	31.7	4.4	41.9	0.7	1.1	2.5	39.6	44.1
England	390	41.0	8.9	30.0	17.9	2.2	41.0	0.0	1.3	0.9	42.8	39.2
Greece	378	21.0	10.4	35.3	25.3	8.0	21.0	0.7	0.9	6.4	21.7	20.2
Hong Kong	552	45.0	7.4	27.5	18.4	1.7	45.0	0.3	0.2	1.2	44.8	45.3
Hungary	383	46.5	3.5	23.6	23.1	3.3	46.5	0.0	1.6	1.7	43.7	50.1
Iceland	214	35.5	8.5	23.9	23.8	8.2	35.5	0.5	4.2	3.5	32.6	39.0
Iran, Islamic Rep.	419	15.8	6.5	47.0	17.3	13.4	15.8	1.6	3.4	8.4	15.9	15.8
Ireland	368	45.9	6.8	27.0	19.2	1.2	45.9	0.1	0.0	1.0	45.6	46.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	63.7	14.9	16.3	4.7	0.4	63.7	0.0	0.2	0.2	60.4	67.0
Korea	347	36.0	3.4	55.3	5.3	0.0	36.0	0.0	0.0	0.0	34.4	37.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	23.3	7.2	31.7	33.7	4.1	23.3	0.0	0.4	3.8	26.5	20.2
Netherlands	354	56.3	2.3	23.3	17.7	0.4	56.3	0.4	0.0	0.0	54.6	58.1
New Zealand	311	40.4	8.0	30.7	17.9	2.9	40.4	0.0	1.5	1.4	40.1	40.8
Norway	269	40.7	7.6	27.4	13.5	10.8	40.7	0.8	4.8	5.2	39.8	41.5
Portugal	334	26.3	7.7	31.2	28.5	6.3	26.3	0.0	1.6	4.7	28.7	23.8
Scotland	393	42.2	6.5	32.4	18.0	0.9	42.2	0.4	0.0	0.6	41.4	43.0
Singapore	871	46.1	6.7	28.5	17.8	0.9	46.1	0.0	0.2	0.7	44.9	47.2
Slovenia	323	44.2	6.3	26.2	20.7	2.6	44.2	0.0	0.5	2.1	46.4	42.1
Thailand	344	30.0	10.3	30.3	27.8	1.5	30.0	0.0	0.2	1.3	24.9	35.0
United States	487	54.3	5.2	24.5	14.3	1.7	54.3	0.1	0.0	1.6	58.6	50.1
INTERNATIONAL AVG	.	39.8	6.9	29.7	19.9	3.8	39.8	0.3	1.1	2.5	39.1	40.5

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

THIRD INTERNATIONAL MATHEMATICS AND SCIENCE STUDY - 1995 ASSESSMENT
 Percent of responses by Math Item Categories - THIRD GRADE

May 14, 1998 67

Item: L03 KEY: A
 Shown game board graph, which object is located at (2,D)? (Geometry)
 Difficulty: 383

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	85.6	4.1	4.7	3.5	2.2	85.6	0.0	0.4	1.8	88.9	82.3
Austria	318	82.9	3.9	4.0	1.4	7.8	82.9	2.6	1.1	4.1	84.0	81.9
Canada	966	85.2	2.5	3.8	3.1	5.3	85.2	1.1	2.0	2.2	81.7	90.6
Cyprus	429	67.1	9.4	8.1	5.3	10.2	67.1	4.0	0.8	5.4	67.4	66.5
Czech Republic	408	89.0	2.3	2.9	1.7	4.2	89.0	1.9	1.1	1.1	89.0	88.9
England	390	89.4	1.5	3.5	2.1	3.5	89.4	0.0	1.3	2.2	89.5	89.3
Greece	378	70.4	8.5	6.3	5.0	9.8	70.4	5.7	0.9	3.3	71.2	69.5
Hong Kong	552	81.2	4.5	6.1	2.8	5.4	81.2	4.2	0.2	1.0	85.8	77.6
Hungary	383	78.3	1.9	3.4	2.3	14.2	78.3	0.0	1.6	12.5	76.2	79.0
Iceland	214	78.0	2.6	5.6	2.4	11.3	78.0	2.1	5.1	4.1	74.5	82.3
Iran, Islamic Rep.	419	51.0	7.5	13.4	9.0	19.0	51.0	8.6	4.1	6.3	46.8	56.4
Ireland	368	80.3	7.3	6.0	2.6	3.9	80.3	3.0	0.2	0.7	82.3	78.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	.	.	.	.	.	.	.	.	.	.	.	.
Korea	347	89.1	4.4	3.0	1.9	1.6	89.1	0.0	0.0	1.6	88.9	89.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	70.5	6.9	10.4	4.4	7.8	70.5	0.0	0.4	7.5	69.5	71.4
Netherlands	354	91.6	1.9	2.3	1.1	3.0	91.6	3.0	0.0	0.0	90.0	92.8
New Zealand	311	84.8	3.2	6.4	1.8	3.9	84.8	0.0	1.7	2.2	80.4	89.6
Norway	269	78.2	1.4	5.7	3.3	11.3	78.2	2.0	4.8	4.5	78.7	77.8
Portugal	334	66.2	7.5	10.0	8.0	8.3	66.2	0.0	2.1	6.2	69.3	63.0
Scotland	393	88.6	2.3	3.2	3.0	2.8	88.6	0.6	0.0	2.3	88.2	88.9
Singapore	871	84.1	4.9	6.8	2.8	1.5	84.1	0.0	0.2	1.3	84.4	83.8
Slovenia	323	84.7	4.1	4.1	2.9	4.2	84.7	2.7	0.5	1.0	83.6	85.7
Thailand	344	69.1	9.7	10.8	7.5	2.9	69.1	0.0	0.2	2.7	67.5	70.6
United States	487	92.6	2.2	2.9	1.2	1.2	92.6	0.1	0.0	1.1	95.0	90.1
INTERNATIONAL AVG	.	79.9	4.5	5.8	3.4	6.3	79.9	1.8	1.2	3.3	79.7	80.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L04 KEY: C
 Shown pattern of shapes, which of the following is arranged in the same pattern? (Patterns, Relations and Functions)
 Difficulty: 488

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	8.4	9.9	63.9	12.4	5.5	63.9	0.0	0.4	5.1	67.3	60.3
Austria	318	4.6	10.6	71.9	2.4	10.4	71.9	0.7	1.1	8.6	75.2	68.9
Canada	966	5.9	6.8	67.8	12.0	7.5	67.8	1.1	2.3	4.1	71.3	65.7
Cyprus	429	10.1	19.4	39.7	8.4	22.3	39.7	1.9	1.0	19.4	39.5	40.0
Czech Republic	408	6.2	8.0	66.3	7.9	11.6	66.3	0.5	1.4	9.6	69.1	63.6
England	390	8.1	12.3	60.3	11.3	7.9	60.3	0.0	1.5	6.4	57.6	63.1
Greece	378	7.1	4.4	29.1	2.0	57.4	29.1	4.4	0.9	52.1	26.9	31.8
Hong Kong	552	2.9	6.3	71.3	9.1	10.3	71.3	0.2	0.2	9.9	71.4	71.0
Hungary	383	9.1	10.2	63.3	5.0	12.5	63.3	0.0	2.0	10.4	66.5	60.4
Iceland	214	7.4	11.7	51.2	14.8	14.9	51.2	1.6	5.4	7.9	49.0	53.7
Iran, Islamic Rep.	419	8.9	25.9	41.0	9.0	15.3	41.0	2.4	4.5	8.5	40.9	41.1
Ireland	368	6.3	13.6	62.8	11.1	6.1	62.8	1.3	0.2	4.6	68.9	57.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	3.4	6.4	86.9	2.4	0.9	86.9	0.0	0.2	0.8	89.6	84.2
Korea	347	2.6	5.8	89.1	2.3	0.3	89.1	0.0	0.0	0.3	91.8	86.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	3.9	7.8	75.0	2.2	11.2	75.0	0.0	0.9	10.3	78.5	71.5
Netherlands	354	4.6	6.5	75.3	9.1	4.5	75.3	4.5	0.0	0.0	76.4	74.9
New Zealand	311	7.0	11.6	58.6	14.7	8.0	58.6	0.0	1.7	6.3	62.5	54.2
Norway	269	7.6	11.2	48.4	9.0	23.8	48.4	2.1	5.2	16.5	52.7	44.1
Portugal	334	9.7	20.3	41.6	6.2	22.1	41.6	0.0	2.9	19.2	46.0	37.0
Scotland	393	9.1	9.0	59.3	13.2	9.4	59.3	3.0	0.8	5.6	59.3	59.0
Singapore	871	6.6	9.5	73.5	7.3	3.0	73.5	0.0	0.2	2.9	75.4	71.8
Slovenia	323	12.6	10.6	53.6	12.7	10.5	53.6	1.5	0.5	8.5	57.3	50.2
Thailand	344	11.6	26.2	42.6	14.1	5.3	42.6	0.0	0.2	5.1	44.5	40.8
United States	487	8.3	7.8	66.7	13.2	4.0	66.7	0.0	0.0	4.0	70.7	62.8
INTERNATIONAL AVG	.	7.2	11.3	60.8	8.8	11.9	60.8	1.1	1.4	9.4	62.9	58.9

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L05 KEY: C
 Shown diagram of cube with one edge labeled, how many edges does the cube have? (Geometry)
 Difficulty: 619

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	18.9	29.2	44.0	6.2	1.6	44.0	0.0	0.7	0.9	42.1	46.0
Austria	318	17.3	41.0	33.4	5.7	2.6	33.4	0.1	1.2	1.2	28.2	38.2
Canada	966	17.8	24.4	50.1	4.8	2.8	50.1	0.0	2.5	0.3	49.5	54.4
Cyprus	429	30.9	35.4	21.1	6.0	6.6	21.1	0.0	1.4	5.2	22.9	19.7
Czech Republic	408	18.1	27.7	43.7	6.1	4.3	43.7	0.7	1.9	1.7	42.6	44.8
England	390	27.5	34.6	29.9	6.0	2.0	29.9	0.0	1.5	0.5	29.0	30.8
Greece	378	34.3	29.8	18.3	8.5	9.0	18.3	0.0	2.1	6.9	19.4	17.1
Hong Kong	552	11.6	26.0	52.6	7.6	2.3	52.6	0.1	0.2	2.0	54.8	50.7
Hungary	383	10.8	48.9	31.6	4.7	4.0	31.6	0.0	2.1	1.9	27.2	33.5
Iceland	214	33.6	37.4	18.9	1.2	9.0	18.9	0.0	6.0	3.0	19.0	18.7
Iran, Islamic Rep.	419	27.6	34.4	10.8	10.6	16.6	10.8	1.6	5.3	9.7	8.1	14.2
Ireland	368	23.5	37.8	34.6	2.4	1.7	34.6	0.2	0.4	1.1	34.0	35.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	18.5	21.5	53.4	5.6	1.0	53.4	0.0	0.2	0.8	53.2	53.5
Korea	347	6.1	41.1	48.2	4.6	0.0	48.2	0.0	0.0	0.0	48.6	47.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	29.7	25.1	29.4	10.6	5.1	29.4	0.0	0.9	4.3	25.7	33.0
Netherlands	354	23.5	27.1	42.8	5.9	0.7	42.8	0.7	0.0	0.0	44.5	41.7
New Zealand	311	25.3	34.4	32.0	5.4	2.9	32.0	0.0	2.4	0.5	30.5	33.6
Norway	269	54.7	24.1	10.2	1.8	9.2	10.2	0.0	6.1	3.0	11.3	9.6
Portugal	334	28.6	25.3	35.4	5.4	5.3	35.4	0.0	3.4	1.9	35.8	34.9
Scotland	393	23.1	31.3	38.7	4.9	2.0	38.7	0.4	0.8	0.8	35.6	41.9
Singapore	871	28.5	29.6	32.6	8.0	1.2	32.6	0.0	0.3	0.9	34.4	30.9
Slovenia	323	6.5	29.2	59.9	3.3	1.1	59.9	0.0	0.5	0.6	57.0	62.6
Thailand	344	18.5	60.1	14.0	5.2	2.2	14.0	0.0	0.4	1.8	14.7	13.3
United States	487	24.2	46.1	24.4	1.5	3.8	24.4	0.1	0.0	3.7	25.5	23.3
INTERNATIONAL AVG	.	23.3	33.4	33.8	5.5	4.0	33.8	0.2	1.7	2.2	33.1	34.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L06 KEY: B
 Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000? (Measurement, Estimation, & Number Sense)
 Difficulty: 576

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	27.4	44.9	16.4	8.6	2.8	44.9	0.0	0.8	2.0	44.7	45.1
Austria	318	25.4	43.6	16.2	8.9	5.9	43.6	0.1	1.2	4.5	39.8	47.2
Canada	966	24.5	41.8	17.1	12.2	4.5	41.8	0.2	2.5	1.7	43.1	41.4
Cyprus	429	32.7	31.6	14.1	12.0	9.6	31.6	0.2	1.4	8.1	29.9	33.2
Czech Republic	408	21.2	49.8	12.8	6.3	9.9	49.8	1.0	2.2	6.7	48.6	51.0
England	390	26.4	41.9	15.7	10.8	5.3	41.9	0.0	1.5	3.8	39.4	44.3
Greece	378	15.4	26.7	13.9	27.3	16.6	26.7	0.0	2.1	14.5	21.7	32.9
Hong Kong	552	10.8	56.9	22.2	6.5	3.6	56.9	0.1	0.2	3.2	57.6	55.9
Hungary	383	25.1	48.4	11.0	8.2	7.3	48.4	0.0	2.9	4.4	49.1	47.1
Iceland	214	26.2	32.0	17.0	11.3	13.5	32.0	0.0	6.7	6.8	28.9	35.7
Iran, Islamic Rep.	419	23.5	28.6	11.0	17.4	19.5	28.6	1.8	6.0	11.7	28.6	28.6
Ireland	368	23.4	39.6	20.8	13.4	2.8	39.6	0.0	0.7	2.0	37.6	41.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	.	.	.	.	.	.	.	.	.	.	.	.
Korea	347	18.9	64.2	15.2	1.6	0.0	64.2	0.0	0.0	0.0	66.9	61.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	29.1	33.5	11.2	13.1	13.1	33.5	0.0	1.2	11.9	32.7	34.4
Netherlands	354	20.7	45.2	25.7	7.6	0.8	45.2	0.8	0.0	0.0	34.2	54.1
New Zealand	311	30.6	38.6	16.4	9.5	5.0	38.6	0.0	2.9	2.1	38.9	38.3
Norway	269	25.8	27.1	22.4	9.8	14.8	27.1	0.0	6.6	8.3	27.2	28.2
Portugal	334	25.2	34.5	9.8	14.8	15.8	34.5	0.0	3.5	12.3	31.5	37.7
Scotland	393	26.1	40.4	16.7	11.1	5.7	40.4	0.5	1.1	4.1	42.5	38.3
Singapore	871	14.7	54.7	20.9	7.6	2.0	54.7	0.0	0.3	1.7	53.9	55.6
Slovenia	323	32.9	42.4	8.5	8.5	7.6	42.4	0.0	0.5	7.1	36.0	48.2
Thailand	344	30.5	45.5	14.1	7.4	2.5	45.5	0.0	1.0	1.5	44.2	46.8
United States	487	36.2	38.3	14.3	6.5	4.7	38.3	0.2	0.0	4.4	37.6	39.0
INTERNATIONAL AVG	.	24.9	41.3	15.8	10.4	7.5	41.3	0.2	2.0	5.3	39.8	42.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L07 KEY: C
 In which of the following pairs of numbers is the 2nd number 100 more than the 1st? (Whole Numbers)
 Difficulty: 607

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	39.0	14.9	28.9	10.7	6.5	28.9	0.0	0.9	5.6	23.9	34.0
Austria	318	30.8	11.8	36.6	12.8	8.0	36.6	0.0	1.6	6.4	28.5	43.8
Canada	966	44.4	12.8	24.2	11.9	6.7	24.2	1.3	2.7	2.6	22.2	27.4
Cyprus	429	22.5	14.0	35.9	13.3	14.3	35.9	0.0	1.7	12.7	33.1	38.5
Czech Republic	408	23.2	8.3	44.8	12.2	11.5	44.8	1.2	2.2	8.1	40.1	49.2
England	390	44.9	13.5	23.1	10.3	8.3	23.1	0.0	1.5	6.8	22.4	23.7
Greece	378	27.4	13.2	24.9	15.8	18.7	24.9	0.5	2.5	15.8	19.9	31.1
Hong Kong	552	25.1	10.8	49.0	8.6	6.6	49.0	1.3	0.2	5.1	47.4	50.6
Hungary	383	26.3	8.1	44.5	9.4	11.6	44.5	0.0	3.7	7.9	45.4	43.7
Iceland	214	44.0	13.6	13.3	11.9	17.2	13.3	0.0	7.6	9.6	10.1	17.1
Iran, Islamic Rep.	419	23.8	14.7	18.8	21.5	21.1	18.8	1.5	7.0	12.7	15.3	23.4
Ireland	368	36.6	14.9	26.5	16.4	5.5	26.5	1.2	1.0	3.4	24.6	28.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	15.6	8.0	64.7	6.3	5.5	64.7	2.4	0.5	2.5	59.9	69.2
Korea	347	14.6	4.3	69.8	10.6	0.7	69.8	0.0	0.0	0.7	64.9	75.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	33.6	11.6	28.6	15.5	10.7	28.6	0.0	1.5	9.2	25.1	32.0
Netherlands	354	30.7	17.8	34.8	11.0	5.7	34.8	5.7	0.0	0.0	24.5	43.0
New Zealand	311	44.6	13.5	20.1	12.0	9.9	20.1	0.0	4.3	5.6	17.4	23.1
Norway	269	28.5	20.2	17.7	11.7	21.9	17.7	0.2	10.0	11.6	17.2	18.0
Portugal	334	28.0	12.7	22.5	16.0	20.9	22.5	0.0	3.8	17.1	20.2	24.9
Scotland	393	40.6	13.0	23.2	14.4	8.9	23.2	0.4	2.1	6.4	20.8	25.5
Singapore	871	35.5	10.8	42.6	8.8	2.2	42.6	0.0	0.3	1.9	43.9	41.4
Slovenia	323	30.6	10.5	42.0	8.0	8.9	42.0	0.6	1.4	6.9	37.5	46.1
Thailand	344	49.9	15.8	19.8	8.6	5.9	19.8	0.0	1.5	4.5	22.1	17.5
United States	487	42.4	12.8	24.5	12.8	7.4	24.5	0.1	0.3	7.0	24.7	24.3
INTERNATIONAL AVG	.	32.6	12.6	32.5	12.1	10.2	32.5	0.7	2.4	7.1	29.6	35.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: L08 KEY: D

Given number of paces in which each of several children cross the room, who had the longest pace? (Measurement, Estimation, & Number Sense)

Difficulty: 673

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	82.0	2.6	2.4	9.7	3.3	9.7	0.0	0.9	2.4	6.4	13.1
Austria	318	60.3	1.1	1.8	34.6	2.2	34.6	0.4	1.6	0.2	27.5	40.7
Canada	966	78.6	4.0	1.0	12.3	4.1	12.3	0.0	2.7	1.3	9.8	16.0
Cyprus	429	70.1	4.0	4.9	13.0	8.1	13.0	0.0	2.1	5.9	14.4	11.8
Czech Republic	408	53.7	2.7	0.9	38.5	4.2	38.5	0.0	2.3	1.9	32.4	44.2
England	390	72.5	2.9	2.7	19.5	2.3	19.5	0.0	1.8	0.5	14.9	24.1
Greece	378	71.3	2.0	2.6	18.0	6.1	18.0	0.0	2.8	3.3	17.0	19.2
Hong Kong	550	72.1	1.6	3.3	21.2	1.8	21.2	0.3	0.2	1.3	20.4	22.1
Hungary	383	78.3	1.2	0.9	13.8	5.8	13.8	0.0	3.9	2.0	12.6	15.0
Iceland	214	60.4	2.1	2.6	23.0	11.9	23.0	0.0	9.0	2.9	16.8	30.4
Iran, Islamic Rep.	419	62.9	5.6	9.0	9.8	12.6	9.8	1.8	7.3	3.6	8.6	11.5
Ireland	368	68.5	2.6	3.1	24.7	1.0	24.7	0.0	1.0	0.0	27.9	21.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	65.5	1.4	0.6	31.7	0.9	31.7	0.0	0.5	0.4	28.3	34.9
Korea	347	53.0	1.3	0.3	45.4	0.0	45.4	0.0	0.0	0.0	48.6	41.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	59.1	1.3	2.1	29.3	8.2	29.3	0.0	3.0	5.2	27.4	31.2
Netherlands	354	57.5	0.8	1.0	40.0	0.7	40.0	0.7	0.0	0.0	40.1	40.2
New Zealand	311	71.1	6.5	1.5	15.4	5.6	15.4	0.0	4.3	1.3	12.9	18.3
Norway	269	63.8	2.5	4.6	15.9	13.2	15.9	0.0	11.5	1.7	14.7	16.7
Portugal	334	68.1	4.2	3.3	17.2	7.1	17.2	0.0	4.5	2.6	10.0	24.8
Scotland	393	82.7	1.9	2.2	9.9	3.3	9.9	0.4	2.1	0.8	9.4	10.6
Singapore	871	74.9	3.8	2.6	17.9	0.8	17.9	0.0	0.3	0.5	16.9	18.8
Slovenia	323	58.7	2.2	0.9	34.3	4.0	34.3	0.0	2.2	1.8	31.7	36.7
Thailand	344	79.3	4.7	3.8	8.0	4.1	8.0	0.0	2.5	1.6	6.8	9.3
United States	487	86.6	2.8	1.5	5.5	3.6	5.5	0.1	0.3	3.2	6.1	4.8
INTERNATIONAL AVG	.	68.8	2.7	2.5	21.2	4.8	21.2	0.1	2.8	1.8	19.2	23.3

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: L09 KEY: A

Given statements about the relative ages of three children, which statement must also be true? (Patterns, Relations and Functions)

Difficulty: 523

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	593	59.1	12.9	7.7	16.4	3.8	59.1	0.0	1.0	2.8	54.8	63.5
Austria	318	52.5	11.7	5.4	25.8	4.6	52.5	0.0	1.8	2.7	54.2	50.8
Canada	966	59.2	10.5	5.7	19.6	5.0	59.2	0.0	3.3	1.6	63.0	56.7
Cyprus	429	48.3	7.8	7.9	26.3	9.8	48.3	0.0	2.6	7.2	45.6	50.6
Czech Republic	408	52.0	8.6	8.6	23.8	7.0	52.0	0.4	3.3	3.2	48.5	55.3
England	390	54.0	7.8	5.4	29.1	3.8	54.0	0.0	2.1	1.6	50.4	57.5
Greece	378	53.8	7.6	9.5	19.9	9.2	53.8	0.0	2.8	6.3	52.8	55.0
Hong Kong	550	64.5	8.3	8.9	16.3	2.0	64.5	0.2	0.7	1.1	67.1	62.3
Hungary	383	62.5	9.7	4.3	17.3	6.2	62.5	0.0	4.7	1.5	65.3	61.3
Iceland	214	47.1	13.2	4.9	20.5	14.3	47.1	0.0	10.2	4.0	40.2	55.4
Iran, Islamic Rep.	419	40.8	11.8	15.5	16.2	15.6	40.8	1.3	8.3	6.1	35.3	47.7
Ireland	368	60.8	9.5	6.3	21.9	1.5	60.8	0.0	1.0	0.5	61.2	60.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	539	67.7	14.0	9.9	6.6	1.8	67.7	0.0	0.5	1.3	66.3	69.0
Korea	347	79.6	7.2	6.9	6.1	0.2	79.6	0.0	0.0	0.2	77.4	82.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	251	37.8	10.9	9.7	29.7	11.9	37.8	0.0	7.1	4.8	41.6	34.1
Netherlands	354	55.6	8.0	3.5	31.9	1.0	55.6	1.0	0.0	0.0	55.0	56.4
New Zealand	311	56.5	10.2	10.0	16.8	6.5	56.5	0.0	4.7	1.8	61.8	50.6
Norway	269	51.9	9.4	8.8	11.5	18.5	51.9	0.4	11.8	6.3	48.2	56.0
Portugal	333	45.7	8.8	8.8	24.8	12.0	45.7	0.0	5.3	6.7	42.0	49.5
Scotland	393	58.2	6.8	7.4	23.1	4.5	58.2	0.2	2.1	2.2	56.2	59.6
Singapore	871	61.6	9.6	8.3	19.3	1.1	61.6	0.0	0.3	0.8	58.4	64.6
Slovenia	323	59.6	13.2	8.8	12.1	6.3	59.6	0.0	2.2	4.1	59.1	60.0
Thailand	344	37.2	13.5	16.3	28.3	4.7	37.2	0.0	2.7	2.0	40.3	34.1
United States	487	64.4	8.5	5.6	16.8	4.7	64.4	0.2	0.4	4.1	72.5	56.4
INTERNATIONAL AVG	.	55.4	10.0	8.1	20.0	6.5	55.4	0.1	3.3	3.0	54.9	56.2

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: M01 KEY: B

Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area. (Data Rep., Analysis and Probability)

Difficulty: 452

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	11.4	71.4	5.2	5.2	6.7	71.4	0.0	0.5	6.2	69.3	73.5
Austria	311	11.9	70.8	7.9	3.1	6.3	70.8	0.9	0.0	5.3	73.3	67.7
Canada	937	16.5	68.4	6.0	5.9	3.1	68.4	0.2	0.5	2.4	66.2	70.5
Cyprus	424	10.4	54.7	11.1	7.2	16.7	54.7	1.7	2.8	12.2	54.7	55.3
Czech Republic	396	9.1	78.2	3.7	2.2	6.8	78.2	2.1	0.2	4.5	78.3	78.1
England	367	12.4	73.1	5.5	4.9	4.1	73.1	0.0	0.2	3.9	74.9	71.4
Greece	360	7.6	72.8	3.0	2.2	14.3	72.8	1.6	3.7	9.0	69.7	75.3
Hong Kong	554	6.5	74.6	8.8	4.8	5.3	74.6	0.1	0.3	4.9	71.8	76.5
Hungary	370	8.6	69.3	6.5	6.1	9.5	69.3	0.0	2.7	6.7	67.8	71.1
Iceland	211	10.7	61.6	10.9	2.7	14.1	61.6	0.0	2.1	12.0	59.4	63.9
Iran, Islamic Rep.	420	7.3	50.4	16.2	4.8	21.4	50.4	2.2	2.2	16.9	51.3	49.2
Ireland	368	15.8	65.9	8.8	6.0	3.5	65.9	0.7	0.3	2.5	64.0	67.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	5.8	88.8	3.3	1.4	0.7	88.8	0.2	0.0	0.4	85.6	91.8
Korea	353	6.2	81.2	10.8	1.7	0.0	81.2	0.0	0.0	0.0	75.3	85.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	11.2	71.8	7.4	4.9	4.7	71.8	0.0	1.0	3.7	68.7	75.5
Netherlands	362	5.7	79.9	8.6	3.4	2.4	79.9	2.4	0.0	0.0	81.1	80.0
New Zealand	317	18.7	61.2	8.1	6.9	5.1	61.2	0.0	1.8	3.4	61.8	60.7
Norway	274	8.7	69.7	5.3	3.6	12.7	69.7	0.8	4.9	7.1	67.8	70.6
Portugal	325	17.1	41.3	15.4	10.4	15.8	41.3	0.0	1.9	13.8	37.2	45.2
Scotland	387	18.5	65.5	8.2	4.6	3.3	65.5	0.3	0.4	2.6	61.6	69.7
Singapore	872	19.1	60.0	9.0	8.7	3.3	60.0	0.0	0.0	3.3	60.5	59.7
Slovenia	318	10.3	71.2	8.8	4.5	5.2	71.2	0.5	0.0	4.7	72.3	70.2
Thailand	309	8.2	68.6	10.4	6.2	6.5	68.6	1.1	1.5	3.9	69.0	68.2
United States	477	14.1	75.0	3.4	5.2	2.3	75.0	0.2	0.3	1.8	74.2	75.6
INTERNATIONAL AVG	.	11.3	68.6	8.0	4.9	7.2	68.6	0.6	1.1	5.5	67.3	69.7

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: M02
 Multi-step word problem: add 6 one-digit numbers and subtract from 60. (Data Rep., Analysis and Probability)
 Difficulty: 575

COUNTRY	N	10	70	71	72	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
										REACH		% Right	% Right
										ED			
Australia	594	29.6	2.2	6.4	5.9	44.1	1.7	10.1	29.6	0.9	9.2	29.1	30.2
Austria	311	54.9	1.0	4.7	4.2	23.0	2.5	9.6	54.9	0.0	9.6	56.0	54.0
Canada	937	32.2	1.8	3.1	9.2	46.3	1.7	5.7	32.2	0.6	5.1	32.8	31.4
Cyprus	423	34.8	2.4	2.8	6.7	31.7	0.2	21.3	34.8	3.4	17.9	33.1	36.8
Czech Republic	396	57.9	1.2	2.5	5.0	24.1	1.4	7.9	57.9	0.5	7.3	52.6	62.9
England	367	36.1	2.5	3.7	6.4	43.0	3.1	5.2	36.1	0.2	5.0	39.0	33.4
Greece	360	26.9	2.5	2.6	8.4	21.8	0.9	36.8	26.9	3.9	32.9	22.8	30.1
Hong Kong	553	43.9	1.1	1.9	7.7	34.2	6.0	5.2	43.9	0.3	4.9	42.7	45.6
Hungary	375	56.5	0.4	0.2	4.1	30.3	0.8	7.7	56.5	3.1	4.6	58.6	55.1
Iceland	211	20.9	1.7	4.5	1.8	51.3	0.8	19.0	20.9	3.9	15.1	17.6	24.1
Iran, Islamic Rep.	420	11.9	0.0	0.1	3.8	18.5	0.1	65.6	11.9	2.7	62.9	12.5	11.2
Ireland	368	41.1	3.3	2.5	6.8	42.1	2.0	2.2	41.1	0.3	1.9	46.7	35.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	55.7	0.9	2.7	9.5	27.5	1.3	2.3	55.7	0.0	2.3	54.8	56.6
Korea	353	66.3	0.8	2.2	3.9	26.7	0.3	0.0	66.3	0.0	0.0	60.1	71.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	265	43.6	0.4	2.9	4.0	34.5	1.2	13.4	43.6	1.4	12.0	41.7	45.9
Netherlands	362	54.6	1.3	7.0	6.4	27.7	1.5	1.5	54.6	0.0	1.5	51.5	58.0
New Zealand	317	22.0	3.2	5.5	7.3	52.3	1.5	8.2	22.0	2.2	5.9	24.8	19.6
Norway	274	16.8	2.0	4.9	6.5	40.3	7.6	22.0	16.8	5.7	16.3	16.8	17.0
Portugal	325	30.0	1.5	3.7	8.1	34.1	0.5	22.0	30.0	2.1	19.9	27.1	32.8
Scotland	387	30.0	2.3	5.4	7.7	45.8	0.9	7.8	30.0	0.7	7.1	31.3	28.6
Singapore	872	57.8	0.3	0.4	8.9	29.8	1.6	1.1	57.8	0.0	1.1	58.5	57.2
Slovenia	318	57.3	2.2	3.1	5.1	24.5	0.5	7.3	57.3	0.0	7.3	58.1	56.5
Thailand	309	30.1	1.1	3.8	7.0	39.6	5.6	12.7	30.1	1.7	11.0	35.8	23.3
United States	477	32.9	5.1	2.2	10.9	44.1	0.6	4.2	32.9	0.3	3.9	31.9	33.8
INTERNATIONAL AVG	.	39.3	1.7	3.3	6.5	34.9	1.9	12.5	39.3	1.4	11.0	39.0	39.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: M03 KEY: A
 Recognize symmetric property of multiplication: $7 \times _$ is the same as what? (Whole Numbers)
 Difficulty: 524

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	53.4	4.3	4.8	8.0	6.6	22.9	53.4	0.0	1.9	21.0	52.3	54.5
Austria	311	54.9	4.5	6.5	1.1	8.6	24.4	54.9	1.1	0.0	23.3	56.1	53.9
Canada	937	58.9	3.9	3.2	10.9	9.0	14.0	58.9	0.2	1.0	12.8	53.2	63.2
Cyprus	423	57.3	4.0	2.8	5.9	6.3	23.7	57.3	2.4	5.2	16.1	53.5	60.3
Czech Republic	396	35.3	4.1	4.5	4.2	7.3	44.6	35.3	24.5	0.5	19.6	29.5	40.7
England	367	50.0	7.4	4.3	14.5	5.9	17.9	50.0	0.0	0.4	17.4	52.1	48.2
Greece	360	35.4	3.7	3.7	6.5	5.4	45.2	35.4	3.1	4.5	37.7	34.9	35.7
Hong Kong	551	57.1	2.6	3.4	3.2	6.8	27.0	57.1	2.3	0.3	24.4	55.6	57.9
Hungary	375	56.7	3.9	3.3	5.4	7.2	23.4	56.7	0.0	3.3	20.1	56.9	56.5
Iceland	211	47.0	9.3	5.7	6.1	3.1	28.8	47.0	0.0	6.3	22.4	50.5	43.4
Iran, Islamic Rep.	420	39.0	6.6	9.3	8.6	12.3	24.2	39.0	5.8	3.4	15.0	40.0	37.9
Ireland	368	54.9	3.4	2.2	7.0	8.7	23.8	54.9	10.7	0.5	12.6	57.3	52.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	79.3	2.3	2.2	4.7	6.3	5.2	79.3	3.3	0.2	1.7	79.3	79.3
Korea	353	75.2	3.0	2.5	3.7	13.9	1.7	75.2	0.0	0.0	1.7	72.2	77.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	52.9	6.2	7.6	4.2	7.3	21.8	52.9	0.0	1.7	20.1	52.3	53.2
Netherlands	362	54.5	6.6	4.6	8.9	19.3	6.0	54.5	6.0	0.0	0.0	56.6	52.4
New Zealand	317	47.1	3.7	6.4	12.7	10.6	19.3	47.1	0.0	3.6	15.7	46.2	47.9
Norway	274	46.1	7.0	5.0	4.6	3.0	34.3	46.1	0.3	6.7	27.4	41.7	52.1
Portugal	325	40.2	2.3	4.5	6.1	6.0	40.9	40.2	0.0	4.0	36.9	38.7	41.8
Scotland	387	50.6	5.6	6.0	10.9	5.6	21.3	50.6	1.6	1.2	18.5	50.1	51.2
Singapore	872	68.1	5.5	4.9	5.5	7.0	9.0	68.1	0.0	0.0	9.0	70.7	65.9
Slovenia	318	54.6	4.9	3.4	2.6	6.0	28.5	54.6	1.3	1.5	25.7	53.4	55.8
Thailand	309	48.1	7.6	7.1	21.6	6.9	8.6	48.1	0.2	2.4	6.1	40.2	57.8
United States	477	64.8	5.1	2.3	6.2	13.4	8.3	64.8	0.1	0.7	7.4	66.4	63.3
INTERNATIONAL AVG	.	53.4	4.9	4.6	7.2	8.0	21.9	53.4	2.6	2.1	17.2	52.5	54.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: M04
 Given explanation of how grid works, give the coordinates of a particular point. (Geometry)
 Difficulty: 626

COUNTRY	N	10	70	79	90	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	594	37.9	10.6	35.0	2.0	14.5	37.9	2.7	11.7	39.2	36.6
Austria	311	29.9	3.1	26.2	12.9	27.9	29.9	0.2	27.7	28.1	32.1
Canada	937	38.0	7.5	41.8	2.9	9.8	38.0	1.2	8.6	39.7	37.0
Cyprus	423	16.4	5.1	34.5	0.7	43.3	16.4	5.2	38.0	18.3	14.8
Czech Republic	396	25.3	3.5	44.2	1.8	25.3	25.3	1.0	24.3	25.8	24.8
England	367	46.6	14.5	28.4	2.0	8.5	46.6	0.7	7.8	49.1	44.3
Greece	360	14.7	3.4	28.3	2.7	50.9	14.7	5.3	45.6	12.6	16.3
Hong Kong	550	33.8	6.0	44.3	2.6	13.3	33.8	0.3	13.0	33.3	34.7
Hungary	375	17.7	9.6	45.9	0.4	26.5	17.7	3.6	22.9	21.3	14.9
Iceland	211	31.5	5.3	34.2	2.7	26.2	31.5	8.0	18.2	36.8	26.2
Iran, Islamic Rep.	420	5.4	1.8	45.3	1.2	46.4	5.4	3.6	42.7	5.5	5.3
Ireland	368	29.3	9.4	47.8	3.0	10.4	29.3	0.8	9.5	31.8	27.1
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	543	40.9	8.7	33.3	6.4	10.6	40.9	0.2	10.4	44.3	37.7
Korea	353	38.2	6.7	48.8	6.0	0.3	38.2	0.0	0.3	30.5	44.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	265	33.0	4.3	29.3	1.5	31.8	33.0	1.9	29.9	36.1	30.1
Netherlands	362	39.9	8.8	43.7	1.0	6.5	39.9	0.0	6.5	41.6	39.0
New Zealand	317	31.6	7.0	43.3	2.0	16.1	31.6	5.6	10.5	31.5	31.7
Norway	274	21.4	6.3	32.0	5.3	35.0	21.4	9.8	25.2	18.3	23.6
Portugal	325	10.4	3.7	40.1	1.4	44.4	10.4	6.8	37.6	8.7	12.1
Scotland	387	39.2	9.4	37.2	1.5	12.7	39.2	2.0	10.7	42.5	35.8
Singapore	872	36.7	7.4	51.6	1.6	2.7	36.7	0.1	2.6	34.4	38.4
Slovenia	318	38.7	6.9	33.3	0.5	20.6	38.7	2.0	18.7	40.4	37.1
Thailand	309	14.6	15.8	45.2	7.6	16.8	14.6	2.6	14.2	11.6	18.2
United States	477	45.5	6.7	41.5	0.7	5.6	45.5	0.7	4.9	49.5	42.0
INTERNATIONAL AVG	.	29.9	7.1	39.0	2.9	21.1	29.9	2.7	18.4	30.5	29.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: M05 KEY: C
 Given partly shaded figure, which of the following numbers represents the shaded part? (Fractions and Proportionality)
 Difficulty: 623

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	52.1	3.4	29.8	8.8	5.9	29.8	0.0	3.6	2.3	27.7	32.0
Austria	311	51.6	3.1	27.9	8.9	8.5	27.9	0.8	0.8	6.9	24.3	32.2
Canada	937	48.9	2.0	35.2	9.9	4.1	35.2	0.0	1.5	2.6	33.3	37.6
Cyprus	423	55.7	3.7	16.2	9.7	14.8	16.2	0.0	7.0	7.8	16.7	15.8
Czech Republic	396	38.7	2.7	44.8	6.1	7.7	44.8	0.2	1.5	6.0	46.8	42.9
England	367	46.1	3.4	38.1	8.8	3.6	38.1	0.0	0.7	2.9	35.7	40.3
Greece	360	31.1	4.4	35.6	8.5	20.3	35.6	0.5	5.8	14.0	39.8	32.4
Hong Kong	551	46.2	2.2	37.6	9.7	4.3	37.6	0.0	0.3	4.1	36.8	37.5
Hungary	375	38.3	2.7	39.5	9.1	10.3	39.5	0.0	4.5	5.8	35.9	43.1
Iceland	211	44.3	11.8	21.3	5.2	17.5	21.3	0.0	9.3	8.2	20.0	22.5
Iran, Islamic Rep.	420	38.6	5.2	23.9	7.7	24.6	23.9	1.5	7.2	15.9	23.4	24.4
Ireland	368	48.0	5.4	34.0	9.2	3.5	34.0	0.6	1.1	1.8	33.8	34.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	22.5	1.7	66.9	8.0	0.9	66.9	0.2	0.5	0.2	66.8	66.9
Korea	353	27.1	1.4	64.2	6.6	0.6	64.2	0.0	0.0	0.6	61.3	66.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	50.0	8.2	25.7	3.8	12.4	25.7	0.0	1.9	10.5	24.1	27.5
Netherlands	362	46.9	6.3	33.1	9.6	4.1	33.1	4.1	0.0	0.0	29.5	38.2
New Zealand	317	51.0	4.9	26.2	8.9	9.0	26.2	0.0	6.3	2.7	25.3	26.9
Norway	274	34.2	5.9	28.4	5.1	26.4	28.4	0.0	11.2	15.3	24.7	30.8
Portugal	325	22.1	2.9	57.0	4.7	13.4	57.0	0.0	8.8	4.5	58.3	55.6
Scotland	387	44.2	6.6	34.4	9.2	5.6	34.4	0.6	2.0	3.0	33.2	35.6
Singapore	872	51.2	8.1	23.0	16.0	1.8	23.0	0.0	0.1	1.6	20.5	25.1
Slovenia	318	44.6	10.4	27.0	4.7	13.3	27.0	0.3	2.5	10.4	23.6	30.2
Thailand	309	66.1	4.0	16.0	9.6	4.4	16.0	0.0	2.8	1.5	16.5	15.3
United States	477	61.6	3.6	18.1	11.6	5.0	18.1	0.0	0.7	4.3	18.4	17.9
INTERNATIONAL AVG	.	44.2	4.7	33.5	8.3	9.3	33.5	0.4	3.3	5.5	32.4	34.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: M06 KEY: A
 John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake? (Whole Numbers)
 Difficulty: 493

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	58.6	15.0	8.6	10.6	7.1	58.6	0.0	3.6	3.6	51.7	65.8
Austria	311	43.8	17.5	5.0	22.3	11.4	43.8	0.8	0.8	9.8	46.2	41.3
Canada	937	51.9	17.1	8.4	14.7	8.0	51.9	0.0	2.0	6.0	41.8	59.9
Cyprus	423	50.8	13.6	7.4	14.0	14.1	50.8	1.8	7.5	4.8	49.0	53.0
Czech Republic	396	73.9	5.1	2.5	10.9	7.6	73.9	0.7	1.7	5.1	69.1	78.5
England	367	57.8	15.1	5.4	16.3	5.3	57.8	0.0	1.1	4.2	54.4	61.0
Greece	360	49.2	11.3	6.7	16.0	16.7	49.2	2.1	5.8	8.8	46.9	51.0
Hong Kong	551	60.5	10.8	4.3	18.8	5.5	60.5	0.0	0.4	5.1	57.7	62.2
Hungary	375	73.2	7.5	1.7	8.5	9.1	73.2	0.0	4.6	4.5	73.7	73.3
Iceland	211	40.7	18.4	8.9	13.2	18.9	40.7	0.0	10.7	8.2	39.5	41.8
Iran, Islamic Rep.	420	31.2	13.9	13.4	13.6	27.8	31.2	1.1	8.1	18.7	30.7	31.8
Ireland	368	55.3	14.1	6.3	19.3	5.0	55.3	1.4	1.1	2.6	55.9	54.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	81.0	7.3	2.7	7.8	1.1	81.0	0.0	0.5	0.6	77.2	84.6
Korea	353	84.3	7.4	0.8	6.8	0.6	84.3	0.0	0.0	0.6	80.0	87.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	57.8	10.8	7.5	12.7	11.2	57.8	0.0	1.9	9.2	53.4	62.2
Netherlands	362	75.0	10.2	2.4	9.5	2.8	75.0	2.8	0.0	0.0	73.6	76.1
New Zealand	317	42.4	18.5	11.3	17.3	10.5	42.4	0.0	7.7	2.8	37.5	46.6
Norway	274	46.0	13.4	3.1	10.0	27.5	46.0	0.3	13.9	13.2	32.8	57.1
Portugal	325	35.9	8.6	12.0	18.2	25.3	35.9	0.0	9.4	15.9	33.4	38.3
Scotland	387	56.1	17.1	7.7	11.9	7.2	56.1	0.5	2.6	4.2	55.2	57.1
Singapore	872	72.0	8.6	5.3	12.7	1.5	72.0	0.0	0.1	1.3	73.4	70.8
Slovenia	318	72.1	5.4	2.5	11.1	8.9	72.1	0.0	2.7	6.2	66.0	77.8
Thailand	309	48.4	20.4	14.1	12.4	4.8	48.4	0.0	3.0	1.8	48.2	48.6
United States	477	61.5	14.1	6.4	13.3	4.8	61.5	0.0	0.9	3.9	55.1	67.1
INTERNATIONAL AVG	.	57.5	12.6	6.4	13.4	10.1	57.5	0.5	3.7	5.9	54.3	60.3

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: M07 KEY: A
 Which of the following would most likely be measured in milliliters? (Measurement, Estimation, & Number Sense)
 Difficulty: 624

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	31.3	15.3	18.4	28.8	6.1	31.3	0.0	3.7	2.5	32.2	30.5
Austria	311	42.5	12.2	18.3	17.9	9.1	42.5	0.2	1.1	7.9	42.0	43.1
Canada	937	31.4	12.5	24.6	25.7	5.8	31.4	0.0	2.7	3.0	30.7	32.2
Cyprus	423	20.7	11.8	38.4	11.6	17.5	20.7	0.0	8.9	8.5	19.9	20.7
Czech Republic	396	28.0	10.6	13.6	39.6	8.2	28.0	0.7	2.9	4.6	27.9	28.0
England	367	29.6	12.2	28.1	25.7	4.5	29.6	0.0	1.1	3.3	30.4	28.9
Greece	360	21.4	13.4	28.1	15.2	21.8	21.4	0.2	7.0	14.6	24.4	19.1
Hong Kong	554	41.2	15.3	20.4	17.3	5.8	41.2	1.2	0.9	3.7	41.6	41.4
Hungary	375	41.4	18.4	14.5	13.5	12.1	41.4	0.0	5.3	6.9	44.8	39.0
Iceland	211	29.3	15.4	14.8	22.2	18.3	29.3	0.0	12.2	6.2	33.9	24.6
Iran, Islamic Rep.	420	22.1	16.0	17.4	19.7	24.8	22.1	0.5	11.1	13.2	18.5	26.2
Ireland	368	27.9	11.3	35.5	19.2	6.0	27.9	1.4	1.7	2.9	28.3	27.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	62.3	19.2	5.9	10.9	1.7	62.3	0.2	0.6	0.8	62.4	62.2
Korea	353	24.6	14.7	38.8	21.1	0.8	24.6	0.0	0.0	0.8	28.3	21.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	28.9	15.1	14.2	30.7	11.2	28.9	0.0	1.9	9.3	28.0	29.9
Netherlands	362	21.2	15.3	20.2	39.4	4.0	21.2	4.0	0.0	0.0	22.4	18.4
New Zealand	317	21.6	14.2	20.7	33.6	9.9	21.6	0.0	7.9	2.1	24.1	19.5
Norway	274	21.5	16.4	14.0	19.6	28.5	21.5	0.0	16.2	12.3	20.1	22.3
Portugal	325	31.3	11.7	17.1	12.8	27.1	31.3	0.0	12.9	14.3	31.9	30.7
Scotland	387	27.0	10.1	31.4	25.2	6.2	27.0	0.3	3.1	2.9	26.8	27.2
Singapore	872	38.8	12.0	27.4	19.7	2.1	38.8	0.0	0.2	1.8	36.9	40.5
Slovenia	318	34.8	13.6	9.7	33.3	8.6	34.8	0.3	3.7	4.7	35.7	33.9
Thailand	309	12.4	22.7	27.7	31.3	5.9	12.4	0.0	3.9	2.1	15.4	8.7
United States	477	33.3	19.5	21.9	20.3	4.9	33.3	0.3	0.9	3.7	31.1	35.2
INTERNATIONAL AVG	.	30.2	14.5	21.7	23.1	10.5	30.2	0.4	4.6	5.5	30.7	29.6

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: M08 KEY: D
 Which of the following four-digit numbers is the largest? (Whole Numbers)
 Difficulty: 381

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	4.1	3.1	10.3	78.1	4.4	78.1	0.0	3.7	0.7	75.6	80.6
Austria	311	3.4	1.3	11.9	80.9	2.6	80.9	0.4	1.4	0.9	84.9	77.1
Canada	937	5.0	3.9	9.1	77.3	4.6	77.3	0.0	2.9	1.7	75.4	78.7
Cyprus	423	5.3	7.7	9.6	65.0	12.5	65.0	0.0	10.0	2.5	65.2	65.3
Czech Republic	396	3.4	0.9	3.5	87.0	5.2	87.0	0.4	3.1	1.6	87.9	86.1
England	367	7.8	5.0	14.1	69.3	3.8	69.3	0.0	1.7	2.1	69.7	69.0
Greece	360	7.3	3.1	3.4	75.5	10.7	75.5	0.2	8.1	2.4	77.1	74.3
Hong Kong	554	1.9	3.1	3.1	88.4	3.5	88.4	0.0	1.1	2.5	86.6	89.7
Hungary	375	2.6	1.0	3.7	84.6	8.1	84.6	0.0	5.9	2.2	82.9	86.5
Iceland	211	8.2	4.7	8.3	60.3	18.5	60.3	1.0	14.0	3.5	62.8	57.8
Iran, Islamic Rep.	420	11.7	9.0	14.6	48.1	16.6	48.1	1.0	12.4	3.2	42.5	54.6
Ireland	368	3.8	2.2	9.6	81.1	3.2	81.1	0.0	2.0	1.2	81.6	80.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	2.1	2.5	3.5	90.9	1.0	90.9	0.0	1.0	0.0	88.7	92.9
Korea	353	2.7	0.8	3.9	92.0	0.6	92.0	0.0	0.0	0.6	92.7	91.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	266	4.3	1.7	13.1	76.8	4.1	76.8	0.0	2.7	1.3	76.0	77.6
Netherlands	362	1.9	0.8	5.7	87.7	3.9	87.7	3.9	0.0	0.0	88.4	87.4
New Zealand	317	7.6	5.8	12.3	64.9	9.5	64.9	0.0	8.5	1.0	62.0	67.3
Norway	274	4.3	4.1	9.5	55.7	26.4	55.7	0.0	19.1	7.2	53.1	59.8
Portugal	325	5.8	2.0	12.0	62.9	17.3	62.9	0.0	14.4	2.8	60.5	65.3
Scotland	387	5.2	4.9	16.5	67.8	5.6	67.8	0.3	3.4	1.9	64.9	70.9
Singapore	872	4.4	4.6	5.3	84.6	1.1	84.6	0.0	0.2	0.9	86.2	83.2
Slovenia	318	3.5	0.5	4.0	86.2	5.9	86.2	0.0	4.4	1.5	84.9	87.5
Thailand	309	8.7	4.5	5.7	75.8	5.3	75.8	0.0	4.4	1.0	75.0	76.7
United States	477	5.1	4.2	4.7	81.6	4.3	81.6	0.0	0.9	3.4	80.6	82.5
INTERNATIONAL AVG	.	5.0	3.4	8.2	75.9	7.4	75.9	0.3	5.2	1.9	75.2	76.8

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: M09 KEY: A
 4 x _ <17: Which number could go in the blank to make the sentence true? (Patterns, Relations and Functions)
 Difficulty: 493

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	594	46.0	21.0	11.7	10.6	10.7	46.0	0.0	3.7	7.0	37.6	54.6
Austria	311	56.5	12.7	10.5	7.3	13.0	56.5	0.0	1.4	11.7	56.0	57.2
Canada	937	53.8	16.0	7.5	11.0	11.8	53.8	0.1	3.0	8.6	50.4	55.3
Cyprus	423	46.9	13.0	6.4	12.9	20.8	46.9	0.2	10.2	10.5	47.7	46.2
Czech Republic	396	64.6	7.2	6.2	7.7	14.3	64.6	3.3	3.7	7.3	62.0	67.0
England	367	41.2	17.5	11.0	18.0	12.3	41.2	0.0	2.0	10.4	33.9	48.0
Greece	360	42.1	13.2	6.2	13.6	24.9	42.1	0.2	8.6	16.2	40.9	43.0
Hong Kong	554	64.1	14.8	6.6	5.4	9.1	64.1	0.3	1.1	7.7	61.6	65.9
Hungary	375	63.3	7.9	5.0	8.7	15.1	63.3	0.0	7.0	8.0	68.9	58.8
Iceland	211	41.5	18.1	4.0	6.9	29.5	41.5	0.0	14.7	14.8	42.7	40.2
Iran, Islamic Rep.	420	38.4	7.6	11.4	17.0	25.7	38.4	0.5	12.7	12.5	34.2	43.1
Ireland	368	45.6	17.7	9.9	14.0	12.7	45.6	3.0	2.0	7.8	48.0	43.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	543	79.2	4.0	6.1	7.5	3.3	79.2	0.8	1.0	1.4	79.9	78.5
Korea	353	88.3	4.3	2.5	1.9	3.0	88.3	0.0	0.0	3.0	86.1	90.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	264	71.6	6.9	6.0	7.4	8.1	71.6	0.0	2.8	5.3	68.5	74.5
Netherlands	362	53.3	12.5	11.4	10.4	12.5	53.3	12.5	0.0	0.0	51.6	55.7
New Zealand	317	43.3	16.5	10.5	16.5	13.3	43.3	0.0	8.5	4.8	44.5	42.2
Norway	274	35.7	11.5	7.4	6.0	39.3	35.7	0.0	20.4	18.9	37.9	35.3
Portugal	325	45.8	8.6	8.6	7.6	29.5	45.8	0.0	14.9	14.6	43.6	47.9
Scotland	387	46.8	17.4	10.1	13.5	12.2	46.8	0.3	3.8	8.2	48.2	45.4
Singapore	872	73.1	13.1	6.4	5.6	1.9	73.1	0.0	0.2	1.7	72.7	73.3
Slovenia	318	74.8	6.6	2.0	4.4	12.2	74.8	0.3	4.8	7.1	78.0	71.7
Thailand	309	52.1	14.5	10.0	17.0	6.4	52.1	0.0	4.6	1.8	47.8	57.4
United States	477	57.6	17.0	5.8	13.0	6.6	57.6	0.0	0.9	5.7	53.1	61.6
INTERNATIONAL AVG	.	55.2	12.5	7.6	10.2	14.5	55.2	0.9	5.5	8.1	54.0	56.5

DIFF = Item Difficulty
 Because of missing gender information, some totals may appear inconsistent

Item: S01
 Given table of frequencies, complete bar graph for same information. (Data Rep., Analysis and Probability)
 Difficulty: 616

COUNTRY	N	20	21	10	11	70	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY
												REACH		% Right	% Right
												ED			
Australia	1178	27.7	1.3	2.1	4.2	0.1	27.1	6.7	30.9	35.3	29.0	3.9	27.0	31.6	26.4
Austria	620	14.8	1.3	5.5	1.9	1.8	8.8	20.5	45.6	23.4	16.1	5.2	40.4	13.3	19.2
Canada	1896	22.7	1.2	17.2	3.4	2.6	15.4	11.1	26.4	44.5	23.9	3.6	22.8	22.5	25.5
Cyprus	838	8.5	1.3	3.1	2.7	0.7	20.4	0.5	63.0	15.5	9.8	11.0	52.0	9.1	10.5
Czech Republic	805	15.8	0.9	10.8	2.2	3.2	11.6	8.0	47.6	29.6	16.6	9.2	38.3	16.0	17.3
England	765	24.7	3.8	12.7	4.9	2.1	11.6	14.6	25.6	46.1	28.5	3.0	22.6	29.7	27.2
Greece	738	11.1	1.5	6.0	1.9	2.0	6.8	6.3	64.4	20.5	12.6	9.4	55.0	13.2	12.1
Hong Kong	1107	56.6	1.9	12.3	6.8	0.4	5.2	0.8	16.0	77.6	58.5	0.6	15.5	57.2	59.5
Hungary	768	12.1	1.5	7.6	1.1	9.8	11.3	4.6	52.1	22.2	13.6	13.3	38.7	15.5	12.1
Iceland	421	12.1	2.6	12.5	0.7	0.1	14.5	1.3	56.2	27.9	14.7	16.3	39.9	12.3	17.1
Iran, Islamic Rep.	838	0.3	0.0	4.3	0.0	0.5	8.2	1.1	85.6	4.6	0.3	15.7	69.9	0.2	0.5
Ireland	708	17.1	1.8	13.1	5.2	7.7	13.8	17.5	23.7	37.2	18.9	3.4	20.3	16.7	20.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1075	53.9	1.5	21.0	3.5	0.2	7.0	1.8	11.2	79.8	55.4	2.1	9.1	62.6	48.9
Korea	683	59.7	8.8	4.1	6.9	1.6	14.8	4.0	0.2	79.5	68.5	0.0	0.2	72.0	65.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	12.4	3.6	10.2	1.7	0.0	20.8	0.8	50.4	27.9	16.1	6.6	43.9	17.7	14.4
Netherlands	679	16.7	1.8	14.7	5.7	3.3	29.5	0.3	28.0	38.9	18.5	0.0	28.0	17.4	19.9
New Zealand	618	18.6	7.0	8.0	5.9	1.5	20.9	10.8	27.3	39.5	25.7	7.6	19.7	25.7	25.6
Norway	564	6.8	1.3	8.5	1.4	11.9	6.7	6.1	57.3	18.0	8.1	19.8	37.5	9.0	6.6
Portugal	664	4.5	0.9	7.4	0.9	2.4	9.1	2.1	72.7	13.7	5.3	22.8	49.9	5.0	5.6
Scotland	782	20.1	3.4	18.7	4.5	1.1	20.4	5.6	26.2	46.8	23.5	3.0	23.2	21.0	25.7
Singapore	1760	47.5	0.6	14.1	6.3	0.2	5.5	11.3	14.4	68.6	48.1	0.5	13.9	50.4	46.1
Slovenia	628	15.0	2.8	7.5	1.3	3.6	10.4	2.0	57.5	26.5	17.7	6.8	50.7	18.9	16.7
Thailand	714	15.8	4.6	14.5	3.1	0.5	11.1	5.1	45.3	38.1	20.4	4.1	41.2	21.9	18.9
United States	937	29.6	1.6	16.5	3.8	1.6	20.7	3.4	22.8	51.5	31.2	0.9	21.9	29.9	32.4
INTERNATIONAL AVG	.	21.8	2.4	10.5	3.3	2.4	13.8	6.1	39.6	38.1	24.2	7.0	32.6	24.5	23.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: S02
 Complete number sentence: 2000+?+30+9=2739. (Whole Numbers)
 Difficulty: 530

COUNTRY	N	10	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
											REACH		% Right	% Right
											ED			
Australia	1178	40.8	27.7	0.1	2.7	4.1	11.5	1.0	12.1	40.8	7.0	5.1	37.9	43.7
Austria	620	44.6	25.9	0.5	2.4	4.5	5.5	2.3	14.3	44.6	9.0	5.3	41.4	47.8
Canada	1896	40.3	23.1	0.0	4.4	3.1	15.8	1.2	12.1	40.3	7.9	4.2	35.5	45.7
Cyprus	837	40.1	10.6	0.6	5.7	2.8	10.0	0.9	29.2	40.1	21.7	7.5	36.3	43.8
Czech Republic	804	54.3	8.3	0.7	2.7	2.0	9.5	2.7	20.0	54.3	15.2	4.8	49.9	59.0
England	765	27.9	28.4	0.0	3.3	4.7	17.1	2.6	16.0	27.9	6.1	9.9	23.0	33.0
Greece	738	35.3	10.8	0.0	3.8	6.8	7.3	2.5	33.6	35.3	20.9	12.6	35.7	35.0
Hong Kong	1107	75.4	1.5	0.1	0.2	9.8	7.8	1.6	3.6	75.4	1.3	2.3	75.7	75.3
Hungary	768	50.3	12.1	0.2	3.1	1.3	7.6	0.4	25.0	50.3	19.8	5.2	50.3	51.0
Iceland	421	17.1	16.9	0.5	1.7	5.3	14.8	0.6	43.0	17.1	24.3	18.7	14.5	19.8
Iran, Islamic Rep.	838	20.8	8.0	0.0	1.1	0.4	22.8	5.2	41.9	20.8	30.0	11.8	20.7	20.8
Ireland	708	39.9	26.9	0.3	2.9	5.1	11.5	1.8	11.6	39.9	5.9	5.7	40.7	39.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1075	72.9	7.6	0.1	2.0	4.2	4.5	1.1	7.7	72.9	3.5	4.2	68.6	76.8
Korea	683	80.6	2.0	0.0	2.7	5.5	8.4	0.7	0.2	80.6	0.0	0.2	79.8	81.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	35.8	25.0	0.0	5.9	0.0	12.1	0.2	21.0	35.8	14.8	6.2	30.6	41.0
Netherlands	679	52.9	20.2	0.6	3.0	10.6	7.7	0.0	4.9	52.9	2.4	2.5	46.9	58.6
New Zealand	618	26.9	23.5	0.8	3.1	9.8	16.1	2.1	17.7	26.9	11.2	6.5	25.4	28.4
Norway	564	17.9	28.6	0.2	4.8	3.9	6.9	3.4	34.4	17.9	25.2	9.2	14.5	21.0
Portugal	664	45.1	9.2	0.0	1.9	2.7	6.1	0.6	34.5	45.1	29.8	4.7	43.2	46.7
Scotland	782	20.9	33.2	0.2	3.5	4.3	19.0	2.8	16.1	20.9	7.4	8.7	15.3	25.9
Singapore	1760	86.2	2.2	0.0	1.3	1.2	6.2	1.2	1.6	86.2	1.1	0.5	87.9	84.8
Slovenia	628	59.8	9.0	0.0	2.4	0.8	8.1	1.6	18.3	59.8	13.6	4.7	59.5	60.0
Thailand	714	42.0	7.4	0.0	2.0	10.7	16.2	6.5	15.1	42.0	10.4	4.7	44.5	39.4
United States	937	36.5	17.6	0.4	2.6	8.4	23.8	2.6	8.1	36.5	2.9	5.2	30.5	41.7
INTERNATIONAL AVG	.	44.3	16.1	0.2	2.9	4.7	11.5	1.9	18.4	44.3	12.2	6.3	42.0	46.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: S03
 Solve word problem: 96.4-33.2 (Fractions and Proportionality)
 Difficulty: 684

COUNTRY	N	20	10	11	19	70	79	90	99	V1	V2	NOT	1. GIRL	2. BOY	
												REACH ED			OMIT	% Right	% Right
Australia	1178	8.0	11.6	0.4	0.4	21.4	33.4	2.1	22.7	20.4	8.0	7.9	14.8	9.0	6.9
Austria	620	7.2	9.9	0.4	2.0	30.7	8.0	7.2	34.6	19.4	7.2	10.1	24.5	8.0	6.3
Canada	1896	8.9	6.5	1.6	0.0	41.9	16.0	2.8	22.3	17.1	8.9	9.7	12.6	8.4	10.2
Cyprus	838	3.1	7.7	0.7	0.0	20.6	24.0	0.6	43.3	11.5	3.1	23.0	20.3	3.3	2.5
Czech Republic	804	16.2	7.9	2.5	0.9	17.0	12.7	2.2	40.5	27.6	16.2	17.3	23.2	14.2	18.4
England	765	9.5	5.9	1.8	1.3	41.9	7.9	4.4	27.3	18.5	9.5	9.6	17.7	9.1	9.9
Greece	738	8.4	1.7	1.0	0.9	8.1	17.7	7.8	54.4	12.0	8.4	23.3	31.1	8.7	8.2
Hong Kong	1106	20.4	22.7	2.2	6.0	3.4	34.9	1.1	9.3	51.3	20.4	1.6	7.7	19.3	21.1
Hungary	768	4.8	13.6	1.5	0.1	19.0	22.7	0.5	37.7	20.0	4.8	21.0	16.7	4.7	5.2
Iceland	421	1.1	5.7	0.8	0.0	17.0	13.5	3.5	58.3	7.6	1.1	30.5	27.8	0.3	2.0
Iran, Islamic Rep.	838	0.9	0.2	0.5	0.0	9.3	22.1	2.4	64.4	1.7	0.9	31.3	33.1	1.1	0.6
Ireland	708	11.9	12.2	0.4	0.8	44.4	4.7	3.4	22.2	25.4	11.9	7.7	14.5	11.3	12.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1075	25.9	20.3	8.1	0.0	16.6	14.4	2.2	12.6	54.3	25.9	5.7	6.9	25.7	26.0
Korea	683	34.0	6.2	16.3	0.0	7.1	33.7	2.5	0.2	56.5	34.0	0.0	0.2	35.0	33.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	8.4	9.6	2.2	1.2	0.4	25.5	0.8	51.9	21.4	8.4	16.4	35.4	8.6	8.2
Netherlands	679	8.2	13.9	1.1	0.0	50.4	12.1	0.4	13.9	23.1	8.2	2.7	11.2	8.7	7.7
New Zealand	618	3.3	5.8	0.2	0.5	49.0	6.5	1.7	33.1	9.8	3.3	14.6	18.5	4.4	2.3
Norway	564	3.2	8.2	0.8	0.0	22.7	4.7	5.4	54.9	12.3	3.2	28.8	26.1	2.4	3.9
Portugal	664	8.1	5.0	0.8	0.5	20.5	7.9	2.4	54.9	14.4	8.1	30.8	24.1	8.4	7.8
Scotland	782	8.1	4.2	1.7	1.5	32.0	20.3	2.5	29.8	15.4	8.1	10.0	19.8	8.0	7.6
Singapore	1759	45.8	2.9	7.2	0.0	10.0	28.0	1.1	5.1	55.9	45.8	1.3	3.9	48.3	43.5
Slovenia	628	14.3	5.2	3.2	1.6	13.9	12.4	2.7	46.7	24.3	14.3	15.1	31.6	13.5	15.0
Thailand	714	22.8	3.0	0.0	0.0	40.2	9.5	3.6	20.8	25.9	22.8	12.2	8.6	27.7	17.7
United States	937	11.4	6.8	2.6	0.2	48.7	19.2	2.8	8.4	20.9	11.4	3.5	4.8	13.3	9.7
INTERNATIONAL AVG	.	12.2	8.2	2.4	0.7	24.4	17.2	2.8	32.1	23.6	12.2	13.9	18.1	12.6	11.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: S04
 Solve word problem: $10/30 = ?/90$. (Fractions and Proportionality)
 Difficulty: 583

COUNTRY	N	10	70	71	72	73	74	75	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
													REACH		% Right	% Right
													ED			
Australia	1178	37.0	10.3	1.6	9.1	0.1	1.7	1.1	16.6	1.4	21.2	37.0	14.1	7.1	38.1	35.8
Austria	620	28.1	11.6	4.3	9.5	0.0	2.0	2.3	9.8	3.7	28.7	28.1	18.7	10.0	26.8	30.0
Canada	1896	27.0	12.5	1.3	7.9	0.3	2.2	2.1	20.7	2.3	23.8	27.0	17.1	6.7	25.9	29.8
Cyprus	837	20.7	8.5	0.6	7.5	0.0	1.2	0.9	16.4	0.8	43.4	20.7	34.5	8.9	17.8	23.2
Czech Republic	804	33.0	7.9	1.9	6.0	0.0	1.8	0.7	8.7	1.6	38.3	33.0	28.9	9.4	30.7	35.5
England	765	38.9	5.8	2.8	6.9	0.2	1.7	1.8	18.4	1.3	22.1	38.9	15.3	6.8	38.3	39.5
Greece	738	22.1	15.9	1.7	5.8	0.1	2.1	2.1	6.6	3.3	40.2	22.1	31.6	8.6	23.4	20.9
Hong Kong	1106	39.9	10.4	2.4	7.6	0.2	3.0	2.0	24.1	1.0	9.4	39.9	4.1	5.3	36.9	42.2
Hungary	768	25.7	5.9	2.1	10.8	0.1	1.3	1.1	14.2	0.4	38.4	25.7	28.9	9.5	28.4	23.7
Iceland	421	14.2	12.6	2.0	7.0	0.7	0.6	0.6	11.9	0.5	49.9	14.2	38.7	11.2	9.6	18.8
Iran, Islamic Rep.	838	9.7	3.8	0.8	2.8	0.3	0.6	1.6	23.3	0.7	56.5	9.7	41.9	14.6	7.7	12.0
Ireland	708	45.6	3.6	1.7	7.5	0.2	1.1	1.5	19.0	1.1	18.7	45.6	14.3	4.4	46.4	44.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1075	49.5	0.5	0.2	1.4	0.3	0.1	8.6	24.0	1.6	13.7	49.5	8.7	4.9	46.7	52.1
Korea	683	54.7	0.7	0.4	1.0	0.3	0.2	6.8	33.2	2.6	0.1	54.7	0.0	0.1	51.4	58.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	26.0	2.6	1.7	9.4	0.0	1.0	0.8	21.3	1.4	35.8	26.0	28.6	7.2	27.4	24.7
Netherlands	679	48.3	10.0	4.4	9.1	0.2	3.7	3.1	14.5	0.2	6.6	48.3	4.5	2.1	44.6	52.1
New Zealand	618	26.2	9.7	1.2	9.1	0.7	1.2	1.4	19.8	0.9	30.0	26.2	24.8	5.2	27.9	24.4
Norway	564	10.2	13.6	2.5	14.8	0.4	2.1	1.1	7.5	1.0	46.8	10.2	38.8	8.0	10.8	9.5
Portugal	664	14.6	7.7	2.2	4.2	0.3	1.3	3.1	10.4	0.7	55.6	14.6	44.2	11.3	11.1	17.7
Scotland	782	33.6	5.6	1.3	9.4	0.2	2.9	2.6	20.7	1.1	22.6	33.6	17.0	5.6	30.2	36.5
Singapore	1760	43.1	3.8	2.6	9.6	0.2	1.9	5.9	27.6	1.3	4.0	43.1	2.1	1.8	40.1	45.9
Slovenia	628	31.4	4.1	2.3	10.5	0.0	3.0	1.5	11.4	1.8	33.9	31.4	26.3	7.6	30.7	32.0
Thailand	714	17.2	8.7	2.5	16.5	0.4	1.7	4.6	21.9	5.4	21.2	17.2	16.7	4.5	17.5	16.9
United States	937	29.4	14.5	2.1	15.4	0.4	0.9	2.5	25.4	1.5	8.0	29.4	4.7	3.3	27.5	31.0
INTERNATIONAL AVG	.	30.3	7.9	1.9	8.3	0.2	1.6	2.5	17.8	1.6	27.9	30.3	21.0	6.8	29.0	31.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: S05
 Given picture of a paper clip, about how many lengths of the clip is the length of this line? (Measurement, Estimation, & Number Sense)
 Difficulty: 570

COUNTRY	N	10	11	19	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
													REACH		% Right	% Right
													ED			
Australia	1178	20.1	23.2	4.4	2.8	5.0	7.2	2.8	12.3	2.6	19.5	47.8	16.2	3.3	49.7	45.8
Austria	617	20.3	24.8	0.5	1.2	1.8	12.3	3.5	7.4	2.0	26.1	45.6	22.4	3.7	46.1	46.0
Canada	1896	17.5	17.5	2.6	8.3	5.0	7.1	1.5	14.8	2.9	22.8	37.7	19.5	3.3	37.8	39.1
Cyprus	838	9.9	13.8	0.3	3.0	2.9	6.9	2.3	13.2	1.3	46.5	24.0	38.9	7.5	22.7	25.4
Czech Republic	804	16.8	15.1	0.6	2.5	1.8	6.2	2.0	11.3	2.0	41.6	32.5	33.2	8.4	28.9	36.5
England	765	21.4	20.0	2.8	7.8	6.1	6.7	3.0	9.2	3.6	19.3	44.2	17.0	2.3	42.5	46.1
Greece	738	5.4	12.3	0.4	4.4	2.6	4.7	4.1	12.1	3.5	50.5	18.1	34.9	15.5	20.8	15.5
Hong Kong	1106	8.4	22.1	1.3	25.1	5.7	7.7	2.4	18.8	1.7	6.8	31.7	5.3	1.6	34.3	29.8
Hungary	768	17.4	14.7	4.6	7.2	0.9	3.7	1.1	12.2	0.4	37.8	36.7	32.8	4.9	38.6	35.9
Iceland	421	9.7	16.0	1.2	5.2	5.6	6.4	2.1	8.3	2.2	43.2	27.0	40.3	2.9	24.8	29.1
Iran, Islamic Rep.	838	4.4	4.6	0.3	15.2	0.0	2.5	0.3	8.3	3.5	60.8	9.3	48.5	12.3	9.9	8.7
Ireland	708	16.8	21.1	2.8	7.8	5.3	8.4	5.5	10.4	2.2	19.8	40.7	16.3	3.4	42.9	38.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1075	10.0	47.0	1.8	6.4	1.7	3.7	1.0	11.8	0.5	16.1	58.8	12.6	3.6	58.7	58.9
Korea	683	16.6	28.9	2.4	9.8	4.5	8.7	1.7	24.4	3.1	0.0	47.8	0.0	0.0	44.9	50.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	9.5	12.4	0.4	1.6	1.0	4.0	1.0	32.0	0.8	37.4	22.3	30.3	7.2	25.3	19.3
Netherlands	679	14.9	22.2	4.3	5.7	4.0	9.5	3.0	27.2	1.1	8.1	41.4	5.6	2.6	39.0	43.8
New Zealand	618	8.9	13.1	5.4	7.8	4.0	5.4	3.3	17.8	3.3	31.1	27.4	26.5	4.6	27.5	27.3
Norway	564	13.5	18.2	2.2	0.7	2.2	6.5	2.5	6.0	3.0	45.5	33.8	41.3	4.1	33.5	32.8
Portugal	664	6.3	10.2	1.8	2.7	1.2	5.3	1.7	11.6	1.1	58.1	18.3	51.3	6.8	17.1	19.3
Scotland	782	20.3	18.3	2.3	7.5	5.6	6.0	5.1	11.9	2.2	20.8	41.0	18.2	2.6	42.2	39.9
Singapore	1760	10.2	21.5	1.7	13.5	5.0	11.0	3.2	28.6	1.6	3.7	33.4	2.6	1.1	29.7	36.7
Slovenia	628	9.0	12.3	0.6	2.0	1.9	3.6	1.3	23.4	6.3	39.6	21.9	28.6	11.0	17.8	25.6
Thailand	714	7.8	18.3	1.3	14.4	4.3	3.0	1.3	27.7	0.7	21.3	27.4	18.7	2.6	27.7	27.1
United States	937	19.3	20.9	2.7	12.1	7.0	6.7	4.2	17.4	2.7	7.2	42.9	6.0	1.1	41.5	44.1
INTERNATIONAL AVG	.	13.1	18.7	2.0	7.3	3.5	6.4	2.5	15.8	2.3	28.5	33.8	23.6	4.9	33.5	34.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T01A
 Read simple information from bar graph. (Data Rep., Analysis and Probability)
 Difficulty: 468

COUNTRY	N	NOT REACH						V1	ED	OMIT	1.GIRL	2.BOY
		10	70	79	90	99	% Right				% Right	
Australia	1186	70.8	7.2	15.7	1.5	4.7	70.8	2.7	2.0	69.4	72.4	
Austria	627	60.4	6.9	15.2	3.2	14.4	60.4	5.1	9.3	59.4	62.1	
Canada	1899	82.0	1.4	9.1	0.2	7.3	82.0	4.7	2.6	82.7	81.0	
Cyprus	824	49.1	10.4	18.0	1.2	21.2	49.1	13.0	8.2	46.7	51.2	
Czech Republic	814	64.5	0.0	16.9	1.6	17.1	64.5	8.4	8.6	64.2	64.9	
England	.	.	.	.	.	.	.	.	.	.	.
Greece	750	45.4	4.2	25.5	2.1	22.8	45.4	7.9	14.9	43.7	47.3	
Hong Kong	1090	65.1	0.1	29.4	3.2	2.2	65.1	0.4	1.7	65.6	64.6	
Hungary	763	48.8	9.1	21.5	0.1	20.5	48.8	14.4	6.1	43.3	56.6	
Iceland	422	46.0	6.8	22.4	1.5	23.3	46.0	16.4	6.9	43.7	48.3	
Iran, Islamic Rep.	834	6.7	22.0	17.8	2.7	50.7	6.7	11.3	39.4	4.5	9.4	
Ireland	708	61.8	5.9	23.8	2.8	5.7	61.8	2.5	3.2	57.0	66.2	
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	87.6	0.4	9.8	0.1	2.1	87.6	0.8	1.3	90.4	84.9	
Korea	687	89.4	3.3	6.3	0.3	0.7	89.4	0.0	0.7	87.8	91.0	
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	46.5	3.0	30.2	1.4	18.9	46.5	7.4	11.5	43.5	49.9	
Netherlands	692	77.6	5.7	13.8	0.4	2.5	77.6	0.0	2.5	76.4	78.5	
New Zealand	625	57.4	8.3	22.5	1.1	10.6	57.4	6.0	4.6	56.6	58.3	
Norway	557	45.6	8.3	17.6	0.9	27.6	45.6	20.8	6.8	41.3	50.3	
Portugal	670	34.8	7.3	23.5	0.9	33.6	34.8	21.4	12.1	31.4	38.1	
Scotland	795	62.6	8.8	22.5	0.5	5.6	62.6	3.0	2.6	55.8	69.4	
Singapore	1758	90.7	0.2	6.9	1.4	0.8	90.7	0.3	0.5	90.8	90.6	
Slovenia	627	57.4	5.2	21.4	1.3	14.6	57.4	5.6	9.0	52.7	61.8	
Thailand	791	55.0	16.6	18.3	1.6	8.5	55.0	3.4	5.1	53.1	57.0	
United States	956	74.7	1.1	20.6	0.2	3.3	74.7	1.1	2.2	68.7	80.3	
INTERNATIONAL AVG	.	60.0	6.2	18.6	1.3	13.9	60.0	6.8	7.0	57.8	62.4	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T01B
 Read information from bar graph and add to find a total. (Data Rep., Analysis and Probability)
 Difficulty: 639

COUNTRY	N	20	21	29	10	11	19	70	71	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
															REACH ED		% Right	% Right	
Australia	1186	13.3	0.0	0.0	1.2	24.5	0.0	7.1	8.2	35.9	1.5	8.3	38.9	13.3	3.8	4.5	13.8	12.8	
Austria	627	14.5	0.0	0.0	1.3	15.7	0.7	4.2	4.6	30.4	4.1	24.5	32.2	14.5	7.7	16.8	13.0	16.3	
Canada	1899	22.4	0.0	0.2	3.2	13.7	0.2	3.2	1.2	45.6	0.7	9.7	39.6	22.5	6.2	3.5	22.7	24.2	
Cyprus	824	3.7	0.0	0.2	3.4	11.5	0.0	2.8	6.2	41.7	1.3	29.1	18.8	3.9	18.1	11.0	3.6	4.1	
Czech Republic	814	25.8	0.0	0.3	2.1	7.9	1.4	1.7	1.2	30.2	1.4	28.0	37.5	26.1	11.3	16.7	26.8	25.3	
England
Greece	750	8.8	4.8	0.1	0.8	7.4	1.8	1.6	3.6	35.8	2.4	32.8	23.7	13.7	13.3	19.6	12.6	14.9	
Hong Kong	1090	22.2	0.0	0.3	3.3	18.0	10.1	4.0	1.1	26.8	4.5	9.8	53.9	22.5	1.2	8.6	21.5	23.1	
Hungary	763	9.4	0.6	0.0	2.5	17.3	1.6	3.4	6.8	33.6	0.2	24.6	31.3	10.0	17.3	7.4	9.7	10.8	
Iceland	422	3.4	0.2	0.5	1.7	6.6	0.8	2.9	5.7	35.7	6.5	36.1	13.2	4.1	19.6	16.6	3.0	5.1	
Iran, Islamic Rep.	834	1.0	0.2	0.0	0.1	0.9	0.0	0.2	12.8	29.9	3.5	51.4	2.1	1.1	16.5	34.9	0.5	1.9	
Ireland	708	15.0	0.0	0.0	0.8	23.2	0.0	4.8	6.5	39.3	1.8	8.6	39.0	15.0	3.8	4.8	16.2	13.9	
Israel
Japan	1079	11.3	11.3	0.0	1.4	27.1	2.0	7.5	0.9	33.1	0.5	5.0	53.0	22.6	1.6	3.4	21.8	23.4	
Korea	687	49.0	3.6	1.2	8.7	10.9	0.4	3.7	1.9	19.1	1.0	0.5	73.8	53.8	0.5	0.0	52.8	54.9	
Kuwait
Latvia (LSS)	506	17.2	0.5	0.0	1.8	6.4	0.2	3.9	1.6	43.0	0.5	24.9	26.0	17.8	10.8	14.1	15.8	19.9	
Netherlands	692	12.4	12.3	0.2	3.7	17.1	4.0	5.7	6.4	33.7	0.7	3.8	49.7	24.9	1.0	2.7	22.9	26.8	
New Zealand	625	8.7	0.1	0.0	2.3	14.4	0.4	6.8	10.3	40.6	1.0	15.4	25.9	8.8	10.2	5.2	9.1	8.4	
Norway	557	3.5	1.2	0.0	1.9	8.8	0.2	4.4	7.0	32.2	2.9	37.9	15.7	4.7	23.6	14.3	4.3	4.5	
Portugal	670	9.6	0.4	0.5	2.0	7.0	1.9	1.4	3.1	29.5	1.3	43.3	21.4	10.6	28.9	14.4	9.5	11.5	
Scotland	795	0.0	0.0	19.4	0.0	0.0	17.3	0.0	0.4	50.4	0.9	11.5	36.7	19.4	4.5	7.0	18.9	19.5	
Singapore	1758	64.2	0.1	0.3	6.7	3.0	0.1	0.8	1.3	19.9	1.4	2.3	74.3	64.5	0.5	1.8	66.0	63.2	
Slovenia	627	29.6	0.2	0.4	5.6	6.8	0.8	2.4	3.3	26.3	1.6	23.0	43.4	30.2	9.6	13.4	29.7	30.6	
Thailand	791	6.4	1.2	0.4	1.5	21.3	0.3	3.4	9.6	41.9	2.2	11.9	31.0	7.9	7.5	4.4	9.2	6.7	
United States	956	27.6	0.0	0.3	2.3	10.4	2.2	4.1	2.4	45.0	0.3	5.2	42.9	28.0	1.5	3.7	28.5	27.5	
INTERNATIONAL AVG	.	16.5	1.6	1.1	2.5	12.2	2.0	3.5	4.6	34.8	1.8	19.5	35.8	19.1	9.5	9.9	18.8	19.5	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T02
 Arrange four digits to make the smallest possible whole number. (Whole Numbers)
 Difficulty: 614

COUNTRY	N	10	70	71	72	73	74	75	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
													REACH		% Right	% Right
													ED			
Australia	1186	42.4	1.5	12.4	1.2	4.7	7.1	1.2	18.1	1.0	10.3	42.4	5.9	4.4	42.9	42.0
Austria	627	19.5	2.2	13.1	4.9	4.2	3.1	0.8	26.1	3.4	22.8	19.5	9.3	13.5	16.5	22.9
Canada	1899	30.0	1.9	14.8	3.1	5.1	6.3	2.8	22.9	0.9	12.2	30.0	7.2	5.0	29.9	30.5
Cyprus	823	10.1	1.5	8.1	3.7	3.5	6.2	0.4	24.2	1.0	41.2	10.1	22.1	19.1	9.4	10.6
Czech Republic	813	21.6	1.1	8.0	1.4	6.6	10.7	1.4	16.9	2.0	30.2	21.6	14.6	15.6	20.7	22.6
England	765	23.4	0.5	14.1	3.8	10.0	5.3	2.5	25.2	0.8	14.2	23.4	7.6	6.6	22.2	24.7
Greece	749	11.2	2.3	12.2	1.3	1.3	5.9	0.5	17.1	3.8	44.6	11.2	16.2	28.4	9.3	13.1
Hong Kong	1089	71.6	1.8	0.9	0.3	0.1	5.7	0.0	15.6	0.5	3.6	71.6	1.5	2.0	70.5	72.5
Hungary	763	29.8	0.7	7.3	1.9	1.5	10.5	2.8	18.4	0.2	26.9	29.8	19.0	7.9	31.4	30.5
Iceland	422	13.1	0.7	9.1	2.5	6.0	7.8	0.5	21.7	1.7	36.9	13.1	24.5	12.4	11.6	14.6
Iran, Islamic Rep.	834	25.0	0.5	2.2	0.2	0.3	12.2	0.0	10.9	1.7	47.2	25.0	17.2	30.0	26.0	23.7
Ireland	708	23.9	1.0	21.3	5.9	4.6	3.4	1.6	25.7	1.3	11.4	23.9	4.7	6.7	25.1	22.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	19.9	4.4	41.0	4.3	0.9	1.9	3.0	16.4	1.5	6.6	19.9	2.4	4.2	16.5	23.2
Korea	687	87.7	2.6	0.4	0.0	0.0	4.7	0.0	3.7	0.4	0.5	87.7	0.5	0.0	86.4	88.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	22.0	0.9	2.4	0.5	2.2	6.5	0.3	33.6	0.6	30.9	22.0	13.7	17.3	24.5	19.3
Netherlands	692	31.8	2.7	16.3	4.5	6.6	8.7	6.0	17.7	0.9	4.8	31.8	1.2	3.6	30.9	31.7
New Zealand	625	23.8	0.9	16.4	5.0	3.8	6.6	2.3	24.1	0.9	16.3	23.8	11.7	4.7	25.0	22.4
Norway	557	16.7	1.4	11.8	3.0	2.4	5.0	1.6	12.0	2.1	44.0	16.7	27.7	16.2	15.8	16.9
Portugal	670	15.6	1.9	8.8	1.2	0.7	11.3	0.1	12.9	0.5	46.8	15.6	32.6	14.2	16.7	14.6
Scotland	795	25.7	0.9	13.3	4.1	7.7	3.7	6.1	23.1	1.0	14.5	25.7	6.8	7.7	23.9	27.4
Singapore	1758	64.7	9.5	5.8	0.8	0.5	6.0	0.1	10.2	1.0	1.4	64.7	0.7	0.7	65.0	64.5
Slovenia	627	18.8	1.7	25.6	2.6	6.3	2.1	1.1	13.1	2.4	26.2	18.8	10.9	15.3	17.1	20.4
Thailand	791	15.0	6.4	18.6	0.9	0.8	3.6	0.1	36.8	2.5	15.2	15.0	9.4	5.8	16.4	13.7
United States	956	35.1	2.2	12.2	2.4	5.3	10.4	1.4	24.5	1.1	5.3	35.1	2.0	3.3	33.9	36.2
INTERNATIONAL AVG	.	29.1	2.1	12.3	2.5	3.5	6.5	1.5	19.6	1.4	21.4	29.1	11.2	10.2	28.7	29.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T03
 Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start? (Measurement, Estimation, & Number Sense)
 Difficulty: 593

COUNTRY	N	10	11	70	71	72	73	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH ED			% Right
Australia	1186	42.1	0.9	0.1	5.6	12.1	4.6	21.5	1.6	11.5	43.0	7.3	4.2	42.7	43.4
Austria	627	36.3	9.8	6.2	3.3	8.3	2.8	15.2	1.4	16.7	46.1	11.1	5.6	41.9	51.0
Canada	1899	30.0	0.1	0.1	4.3	13.3	10.8	27.4	0.5	13.3	30.1	9.2	4.1	27.1	31.6
Cyprus	823	18.9	0.0	0.0	2.4	7.2	9.0	23.9	0.6	38.0	18.9	27.8	10.2	13.0	24.7
Czech Republic	814	40.1	5.0	3.3	1.6	6.2	3.3	14.2	2.0	24.5	45.1	18.6	5.9	41.3	49.0
England	765	30.0	5.5	0.3	2.4	12.5	7.1	21.6	3.3	17.4	35.5	10.0	7.3	30.9	40.6
Greece	750	16.3	1.6	0.4	1.0	6.6	12.0	20.0	1.3	40.8	18.0	20.5	20.3	15.7	20.5
Hong Kong	1089	21.5	2.1	0.3	2.4	10.4	7.5	43.2	1.8	10.8	23.6	1.7	9.1	19.6	27.0
Hungary	763	19.5	8.9	2.8	1.7	6.1	4.2	25.1	0.2	31.3	28.5	22.8	8.5	27.0	32.2
Iceland	422	14.7	5.5	2.4	4.2	6.9	1.4	27.1	3.2	34.7	20.2	27.4	7.3	19.1	21.4
Iran, Islamic Rep.	834	5.4	0.0	0.1	0.9	4.5	2.2	39.9	2.8	44.3	5.5	19.9	24.4	5.8	5.1
Ireland	708	32.8	7.6	0.6	2.6	8.7	10.4	22.5	3.9	10.9	40.4	5.9	4.9	40.0	40.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	39.2	0.8	0.2	5.5	14.3	11.4	21.8	0.7	6.1	40.0	3.4	2.7	35.4	44.3
Korea	687	57.4	0.5	0.5	0.5	12.8	8.5	17.9	1.4	0.6	57.9	0.5	0.1	51.9	63.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	39.7	0.5	1.2	3.8	9.7	1.8	21.1	0.4	21.9	40.2	15.9	5.9	38.5	42.0
Netherlands	692	15.7	36.5	11.4	2.9	5.8	4.2	18.5	0.4	4.5	52.3	2.4	2.1	52.1	52.2
New Zealand	625	27.9	0.7	0.2	5.3	11.8	7.1	27.9	0.9	18.2	28.6	13.6	4.6	29.6	27.4
Norway	557	13.7	15.8	3.9	3.5	7.2	1.0	13.7	2.1	39.1	29.5	32.1	7.0	25.0	32.8
Portugal	670	8.3	0.3	0.3	0.7	4.3	12.4	20.8	1.0	51.9	8.6	37.6	14.3	6.3	10.8
Scotland	795	27.3	5.8	0.1	5.1	12.4	8.4	24.4	0.9	15.7	33.1	8.8	6.8	29.9	35.9
Singapore	1758	41.5	0.0	0.2	0.8	8.6	16.0	29.5	1.1	2.3	41.5	0.8	1.5	39.3	43.4
Slovenia	627	35.5	5.7	2.5	1.8	7.3	3.7	15.3	1.7	26.3	41.3	13.5	12.8	34.0	48.1
Thailand	791	7.7	0.1	0.0	8.0	6.4	4.1	55.6	2.0	16.1	7.8	12.3	3.8	9.4	6.2
United States	956	34.0	0.3	0.0	2.9	14.8	12.6	29.4	0.6	5.5	34.3	2.5	3.0	29.6	38.6
INTERNATIONAL AVG	.	27.3	4.8	1.5	3.1	9.1	6.9	24.9	1.5	20.9	32.1	13.6	7.4	29.4	34.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T04A
 Does 10 girls and 20 boys mean one girl for every two boys? Explain. (Fractions and Proportionality)
 Difficulty: 745

COUNTRY	N	10	19	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
												REACH ED			
Australia	1186	16.1	4.4	5.6	6.2	18.0	20.1	4.6	6.3	18.7	20.5	8.4	10.3	25.0	15.8
Austria	627	3.3	0.0	1.7	12.5	3.0	42.0	3.6	3.9	29.9	3.3	12.0	17.9	3.4	3.3
Canada	1899	8.1	1.6	6.6	6.5	26.8	21.1	7.8	2.8	18.7	9.7	10.6	8.1	9.5	9.9
Cyprus	824	5.2	0.3	4.0	12.3	5.6	18.6	3.9	4.6	45.5	5.4	30.9	14.6	5.0	5.8
Czech Republic	814	7.8	0.7	3.0	12.6	6.3	24.9	3.1	3.0	38.5	8.6	20.2	18.3	8.3	8.8
England	765	16.0	0.8	7.1	6.6	21.4	19.5	2.2	5.2	21.1	16.9	11.2	9.9	20.0	13.4
Greece	750	6.5	0.4	2.9	7.6	10.1	26.3	2.3	3.1	40.8	6.9	22.9	17.9	5.8	8.1
Hong Kong	1078	3.1	0.0	2.4	14.8	6.7	48.3	1.2	11.3	12.1	3.1	3.1	9.0	2.8	3.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	422	1.2	0.3	2.5	11.1	2.6	39.4	3.0	2.1	37.7	1.5	28.6	9.1	2.1	1.0
Iran, Islamic Rep.	834	2.8	0.3	4.4	12.1	11.2	30.8	3.6	4.1	30.7	3.1	23.9	6.8	2.6	3.7
Ireland	709	11.4	0.5	7.1	9.9	23.6	27.0	1.2	5.4	14.0	11.9	7.0	6.9	11.6	12.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	2.9	8.9	11.1	7.3	24.2	19.5	7.3	3.7	15.0	11.8	4.4	10.6	12.6	11.1
Korea	687	23.6	7.2	18.1	5.6	22.7	10.0	8.9	2.1	1.8	30.9	0.5	1.4	33.0	28.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	1.6	1.2	0.7	10.4	2.0	32.2	7.5	1.7	42.6	2.8	16.6	26.1	2.8	2.9
Netherlands	692	16.0	0.2	8.0	7.7	25.0	29.6	3.7	0.8	8.8	16.3	3.0	5.7	19.8	12.9
New Zealand	625	13.0	0.8	6.9	5.9	19.6	19.7	8.3	2.0	23.7	13.8	15.9	7.8	16.5	10.9
Norway	557	8.2	0.0	1.4	7.1	5.1	34.4	1.5	2.5	39.8	8.2	33.6	6.3	7.7	8.7
Portugal	670	3.2	0.5	2.3	4.0	9.2	17.1	6.5	1.4	55.9	3.6	42.8	13.1	4.2	3.1
Scotland	795	10.7	0.7	7.4	8.1	26.1	23.2	4.5	2.9	16.5	11.4	10.2	6.3	11.6	10.8
Singapore	1758	23.3	2.6	19.5	7.0	20.7	11.1	8.9	3.8	3.0	25.9	1.1	1.9	25.6	26.2
Slovenia	627	7.1	1.9	3.0	8.6	10.1	28.1	1.6	2.6	37.1	9.0	16.9	20.2	10.0	8.0
Thailand	791	0.3	0.0	2.2	15.0	4.7	50.1	4.5	5.3	18.0	0.3	13.5	4.6	0.4	0.2
United States	956	13.0	0.1	8.4	8.9	23.5	22.8	11.7	2.2	9.6	13.1	3.4	6.2	15.7	10.6
INTERNATIONAL AVG	.	8.9	1.5	5.9	9.0	14.3	26.8	4.8	3.6	25.2	10.3	14.8	10.4	11.1	9.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T04B

Does 10 girls and 20 boys mean half of all students are girls? Explain. (Fractions and Proportionality)

Difficulty: 796

COUNTRY	N	10	19	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
												REACH ED			
Australia	1186	7.0	4.1	12.4	18.2	12.0	13.0	4.6	3.4	25.3	11.1	10.8	14.5	13.8	8.3
Austria	627	1.6	0.0	4.1	24.7	1.8	29.6	2.6	4.8	30.7	1.6	18.7	12.0	2.3	1.0
Canada	1899	3.1	0.4	23.3	16.9	13.2	13.1	6.6	1.5	21.8	3.5	14.1	7.8	3.2	3.9
Cyprus	824	3.3	0.0	7.9	15.2	2.7	15.8	2.8	3.9	48.3	3.3	37.7	10.6	2.6	4.1
Czech Republic	814	4.7	0.5	3.2	12.3	5.7	28.4	2.2	2.0	41.0	5.2	27.2	13.8	5.6	4.7
England	765	7.6	1.7	15.8	13.3	13.3	14.0	2.3	4.3	27.7	9.3	13.8	13.8	11.7	6.6
Greece	750	1.0	0.1	7.1	14.1	7.5	20.5	1.9	2.0	45.8	1.1	27.1	18.7	0.9	1.4
Hong Kong	1078	3.6	0.0	5.1	32.1	3.5	30.1	1.1	10.3	14.1	3.6	4.8	9.3	3.0	4.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	422	0.0	0.3	4.5	24.5	4.5	23.3	1.4	2.7	38.8	0.3	32.7	6.1	0.0	0.5
Iran, Islamic Rep.	834	0.5	0.0	8.8	29.6	6.0	15.0	0.6	2.2	37.4	0.5	28.9	8.5	0.1	1.0
Ireland	709	8.6	0.8	14.0	16.9	14.9	23.7	1.2	4.0	16.0	9.4	9.2	6.8	11.4	7.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	10.0	0.1	18.6	12.7	16.1	9.9	8.3	1.6	22.7	10.1	9.4	13.3	9.8	10.4
Korea	687	16.7	3.5	28.2	6.7	23.5	6.7	10.4	3.2	1.1	20.2	0.7	0.3	19.7	20.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	0.8	0.2	2.8	24.3	1.7	18.7	6.4	1.3	43.9	0.9	24.1	19.8	0.7	1.2
Netherlands	692	6.7	1.0	14.6	12.5	26.8	26.1	2.4	0.5	9.3	7.7	5.3	4.0	11.0	3.9
New Zealand	625	6.0	0.6	17.0	13.7	13.6	14.4	5.9	2.1	26.8	6.6	20.0	6.7	8.9	4.1
Norway	557	5.9	0.1	6.2	18.2	3.5	20.0	0.7	2.1	43.2	6.0	37.5	5.7	6.7	4.9
Portugal	670	0.8	0.3	7.4	14.4	4.5	6.6	6.1	0.8	59.0	1.1	49.3	9.7	2.0	0.4
Scotland	795	5.3	0.6	16.9	14.9	17.5	16.8	4.0	2.3	21.7	5.9	12.3	9.4	5.2	6.2
Singapore	1758	11.9	10.4	23.2	8.8	19.1	9.9	8.7	3.9	4.1	22.4	2.0	2.1	23.7	21.3
Slovenia	627	2.4	0.1	7.3	27.4	4.7	13.8	1.2	1.4	41.7	2.5	21.9	19.8	2.9	2.1
Thailand	791	0.1	0.2	4.5	24.7	2.7	40.9	3.9	5.5	17.6	0.3	15.9	1.6	0.0	0.6
United States	956	5.6	0.2	21.2	19.2	16.5	13.7	9.1	1.8	12.9	5.8	5.5	7.4	6.7	5.0
INTERNATIONAL AVG	.	4.9	1.1	11.9	18.1	10.2	18.4	4.1	2.9	28.3	6.0	18.7	9.6	6.6	5.4

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: T05
 Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded. (Geometry)
 Difficulty: 520

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	19	70	71	72	79	90	99	V1				
Australia	1186	53.2	7.8	0.0	0.2	1.4	2.1	15.7	0.9	18.7	61.0	13.8	4.8	62.3	59.6
Austria	627	42.8	6.6	0.8	0.0	0.3	5.3	12.9	2.9	28.3	50.2	19.8	8.4	56.4	44.4
Canada	1899	46.5	2.5	4.3	0.1	0.1	3.1	17.8	1.1	24.5	53.3	15.7	8.9	55.3	52.1
Cyprus	823	7.5	3.3	0.0	0.8	2.7	7.5	27.1	0.2	50.8	10.9	39.4	11.5	12.0	9.5
Czech Republic	814	36.2	5.8	7.6	0.3	0.3	2.3	10.0	1.2	36.3	49.6	28.7	7.6	49.1	50.1
England	765	53.3	7.7	0.1	0.5	0.6	4.0	6.8	1.6	25.4	61.1	17.4	7.9	61.1	61.1
Greece	749	11.7	6.3	0.3	0.5	2.0	4.4	30.1	3.4	41.3	18.3	29.3	12.1	17.6	19.1
Hong Kong	1077	57.7	6.6	7.1	0.3	0.3	2.1	15.3	1.7	9.0	71.3	5.4	3.6	69.8	72.4
Hungary	763	25.1	7.9	3.3	0.2	0.7	3.2	13.8	0.4	45.2	36.3	31.7	13.5	37.0	36.6
Iceland	422	26.7	12.3	0.0	0.6	0.2	3.5	10.6	2.1	44.0	39.1	34.3	9.6	42.0	36.2
Iran, Islamic Rep.	834	6.1	0.4	3.1	0.0	0.4	2.2	14.5	2.3	71.0	9.6	35.2	35.8	11.1	7.9
Ireland	709	33.0	7.9	0.8	1.4	1.8	3.8	31.6	1.9	17.8	41.6	10.0	7.9	43.0	40.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1079	58.3	11.9	4.4	0.1	0.8	0.8	3.9	1.3	18.6	74.6	13.4	5.2	72.8	76.3
Korea	687	61.5	9.5	2.1	1.2	0.7	1.1	16.0	7.1	0.9	73.1	0.9	0.0	75.4	70.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	506	41.2	2.2	3.2	0.2	0.7	3.6	12.4	0.2	36.2	46.6	25.6	10.7	52.1	40.7
Netherlands	692	42.8	12.2	0.0	1.0	5.0	4.1	24.1	0.4	10.5	55.0	5.7	4.8	55.7	54.6
New Zealand	625	37.0	10.6	0.3	0.4	1.4	1.7	18.2	0.7	29.7	47.9	21.7	8.0	51.2	44.1
Norway	557	18.1	3.7	0.0	0.1	4.3	10.5	6.6	3.7	53.1	21.8	40.3	12.8	22.4	20.6
Portugal	670	11.0	4.1	0.5	0.3	0.4	5.3	12.7	2.1	63.6	15.6	52.6	11.0	14.9	16.3
Scotland	795	55.7	3.9	0.4	0.0	0.0	1.9	15.5	1.2	21.4	60.0	15.0	6.3	60.8	59.0
Singapore	1758	39.9	13.9	0.0	1.3	5.7	4.2	23.6	3.0	8.3	53.8	2.5	5.9	54.8	52.9
Slovenia	627	51.5	2.8	1.4	0.3	0.5	3.1	10.9	0.7	28.8	55.6	22.9	5.9	58.0	53.5
Thailand	791	26.2	1.8	3.3	0.7	3.0	5.0	14.9	2.2	42.8	31.3	16.7	26.1	35.1	27.6
United States	956	37.2	3.4	4.3	0.4	0.5	3.8	37.5	0.6	12.3	44.9	6.3	6.0	41.9	47.8
INTERNATIONAL AVG	.	36.7	6.5	2.0	0.4	1.4	3.7	16.8	1.8	30.8	45.1	21.0	9.8	46.3	43.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U01
 Given a triangle and large irregular figure, how many triangles will cover the figure? (Measurement, Estimation, & Number Sense)
 Difficulty: 576

COUNTRY	N	20	10	11	12	70	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY
												REACH		% Right	% Right
												ED			
Australia	1189	38.0	0.9	9.8	5.8	18.8	22.0	0.0	4.6	54.5	38.0	1.9	2.7	37.1	39.0
Austria	634	53.6	1.8	2.8	6.4	12.6	13.6	1.9	7.3	64.7	53.6	1.6	5.7	52.0	55.2
Canada	1914	37.5	1.7	8.6	3.3	7.8	35.4	0.6	5.0	51.2	37.5	2.9	2.1	36.7	37.0
Cyprus	849	21.8	1.8	6.6	4.5	21.9	24.3	0.0	19.1	34.7	21.8	7.5	11.6	19.8	24.0
Czech Republic	823	40.1	1.7	10.8	3.4	18.3	15.0	0.8	9.8	56.0	40.1	6.7	3.1	42.0	38.3
England	771	28.5	1.2	9.5	2.2	47.1	4.2	1.7	5.6	41.4	28.5	2.5	3.0	29.8	27.2
Greece	748	22.0	2.5	3.3	5.4	34.2	11.9	1.8	19.0	33.1	22.0	4.9	14.1	23.3	20.6
Hong Kong	1085	52.3	2.9	10.0	3.7	18.4	9.4	0.9	2.5	68.8	52.3	0.9	1.6	51.8	52.8
Hungary	763	46.2	1.9	2.8	5.2	14.7	11.4	1.3	16.4	56.1	46.2	10.8	5.6	46.2	47.4
Iceland	426	31.1	1.8	5.5	4.5	11.5	24.5	0.8	20.3	42.9	31.1	14.8	5.5	32.0	30.1
Iran, Islamic Rep.	839	20.6	1.9	5.8	4.1	1.2	35.9	2.3	28.1	32.4	20.6	9.5	18.6	21.5	19.7
Ireland	728	19.5	2.0	13.3	2.8	13.2	43.1	2.1	4.0	37.6	19.5	1.1	2.9	22.4	16.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	62.7	0.5	7.2	5.1	18.8	1.9	0.7	3.1	75.5	62.7	1.8	1.4	64.7	60.7
Korea	696	67.3	4.7	2.0	5.3	9.0	9.8	1.2	0.7	79.3	67.3	0.0	0.7	68.1	66.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	29.2	9.5	6.7	2.9	4.2	31.2	1.1	15.2	48.3	29.2	5.3	9.9	28.1	30.2
Netherlands	701	49.1	1.4	3.4	6.4	12.2	26.2	0.2	1.1	60.3	49.1	0.0	1.1	52.8	45.9
New Zealand	621	25.0	0.9	12.8	5.6	7.7	37.0	0.5	10.5	44.3	25.0	4.7	5.8	24.1	26.1
Norway	548	24.2	2.2	1.8	6.1	39.2	1.2	1.5	23.7	34.2	24.2	16.7	7.0	24.2	24.0
Portugal	673	28.5	1.8	2.4	3.6	25.1	11.0	0.5	27.1	36.3	28.5	14.4	12.7	29.1	28.0
Scotland	797	38.7	2.9	3.4	4.8	18.4	24.9	0.4	6.5	49.8	38.7	3.7	2.8	38.6	38.7
Singapore	1753	47.3	2.3	7.2	3.5	30.7	6.8	1.2	1.1	60.3	47.3	0.2	0.9	48.2	46.5
Slovenia	629	34.2	5.5	2.5	4.9	21.6	20.0	1.0	10.3	47.1	34.2	3.0	7.3	32.9	35.3
Thailand	726	16.5	1.6	8.9	2.5	7.3	50.4	1.2	11.6	29.5	16.5	2.4	9.2	17.9	15.0
United States	972	24.6	1.0	9.1	3.3	14.9	43.3	0.6	3.2	38.0	24.6	0.6	2.6	27.8	21.3
INTERNATIONAL AVG	.	35.8	2.4	6.5	4.4	17.9	21.4	1.0	10.7	49.0	35.8	4.9	5.7	36.3	35.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U02
 Write a fraction that is larger than 2/7. (Fractions and Proportionality)
 Difficulty: 564

COUNTRY	N	NOT REACHED											OMIT	1.GIRL % Right	2.BOY % Right		
		10	11	12	13	19	70	71	72	79	90	99				V1	
Australia	1189	19.5	0.8	6.7	2.5	14.1	1.2	0.4	11.0	25.2	2.2	16.3	43.6	3.2	13.1	45.2	42.0
Austria	634	9.2	0.7	3.2	4.6	4.8	0.3	0.3	4.5	15.0	12.2	45.2	22.6	2.9	42.2	18.5	26.2
Canada	1914	20.8	0.2	8.2	1.1	15.5	0.2	0.0	7.4	28.8	2.7	15.1	45.8	3.8	11.3	50.1	42.0
Cyprus	849	17.6	2.6	7.4	9.5	15.4	3.7	0.2	5.4	14.3	0.4	23.6	52.4	11.3	12.3	56.0	49.2
Czech Republic	823	11.9	0.8	7.0	1.8	9.0	0.9	0.0	5.1	20.7	5.1	37.7	30.5	8.6	29.0	32.5	28.6
England	771	15.1	1.5	7.4	3.0	18.1	0.8	0.0	13.5	16.2	4.8	19.8	45.0	4.2	15.6	44.6	45.3
Greece	748	13.7	1.5	7.7	1.0	9.4	1.0	0.0	3.5	17.6	3.8	40.9	33.2	7.9	33.0	33.0	33.5
Hong Kong	1086	52.3	3.0	6.2	2.8	10.0	5.8	0.5	5.8	8.6	0.4	4.6	74.3	1.4	3.3	76.0	72.6
Hungary	763	17.1	2.2	6.5	2.8	9.6	1.1	0.0	6.9	16.3	3.0	34.7	38.1	13.4	21.3	37.6	38.0
Iceland	426	10.0	0.6	3.3	1.0	4.8	0.7	0.0	8.2	26.3	6.1	38.9	19.7	18.3	20.6	17.5	22.0
Iran, Islamic Rep.	839	11.3	2.0	10.3	0.5	3.5	1.0	0.0	3.5	20.8	1.2	46.0	27.5	14.5	31.4	29.3	25.2
Ireland	728	28.4	3.1	3.3	7.9	12.7	0.4	0.0	10.2	20.0	3.1	10.8	55.5	2.3	8.5	55.3	55.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	69.6	1.4	3.5	0.6	5.5	3.8	0.1	5.8	4.1	0.7	5.0	80.6	2.2	2.8	81.2	80.0
Korea	696	63.2	2.2	2.4	1.6	2.8	10.9	0.0	7.4	7.8	0.7	0.9	72.3	0.6	0.3	72.6	71.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	5.2	0.1	5.1	0.8	0.7	0.0	0.2	1.6	44.8	1.0	40.4	12.0	9.2	31.2	12.7	11.3
Netherlands	701	10.1	0.6	6.3	1.8	12.7	0.9	0.1	12.6	37.1	2.6	15.1	31.6	0.8	14.3	36.6	27.2
New Zealand	621	12.9	0.4	4.9	2.0	18.2	0.9	0.0	10.9	28.7	2.4	18.7	38.5	7.8	10.9	39.9	36.9
Norway	548	4.7	0.6	4.1	1.3	6.1	0.0	0.0	5.7	17.2	5.1	55.5	16.6	19.5	36.0	19.5	14.3
Portugal	673	6.8	1.0	4.2	0.3	5.3	0.1	0.0	7.1	20.0	1.6	53.8	17.5	18.8	35.0	16.4	18.7
Scotland	797	15.4	0.7	4.1	2.3	16.2	1.0	0.0	16.0	24.0	2.5	17.9	38.6	5.2	12.7	38.2	38.8
Singapore	1753	44.4	2.4	1.0	6.1	8.3	5.9	7.1	1.4	20.6	1.1	1.7	62.2	0.5	1.2	63.4	61.1
Slovenia	629	11.5	1.0	4.3	0.4	3.1	1.4	0.0	9.0	26.9	4.6	37.9	20.3	5.3	32.6	20.1	20.4
Thailand	726	21.7	0.0	12.2	1.0	20.5	4.2	0.2	7.1	20.4	1.0	11.7	55.4	5.9	5.8	58.2	52.3
United States	972	21.5	1.7	10.1	4.2	18.6	2.2	0.1	9.6	23.0	1.4	7.7	56.1	1.3	6.4	56.9	55.3
INTERNATIONAL AVG	.	21.4	1.3	5.8	2.5	10.2	2.0	0.4	7.5	21.0	2.9	25.0	41.2	7.0	18.0	42.1	40.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U03A
 Solve word problem using proportions: $3/10 = 9/?$ (Fractions and Proportionality)
 Difficulty: 534

COUNTRY	N	10	70	79	90	99	NOT REACH		OMIT	1.GIRL	2.BOY
							V1	ED		% Right	% Right
Australia	1189	48.8	6.7	32.7	1.4	10.4	48.8	5.8	4.6	45.5	52.4
Austria	634	51.4	2.1	26.1	2.5	17.9	51.4	6.9	11.0	46.5	55.9
Canada	1914	43.0	4.0	40.1	0.9	12.0	43.0	6.7	5.3	38.9	46.6
Cyprus	844	39.6	0.9	29.8	0.8	28.8	39.6	14.7	14.2	34.7	44.6
Czech Republic	823	54.4	2.6	22.1	1.1	19.8	54.4	13.6	6.2	50.4	58.4
England	771	41.7	4.6	37.6	1.6	14.6	41.7	8.2	6.4	39.5	43.9
Greece	748	37.8	1.9	29.1	1.0	30.3	37.8	11.8	18.5	32.0	44.1
Hong Kong	1084	68.1	1.1	25.2	0.1	5.5	68.1	1.6	3.9	65.7	70.3
Hungary	763	41.3	3.6	28.3	1.1	25.8	41.3	18.9	6.9	38.3	43.7
Iceland	426	33.5	4.4	29.6	0.9	31.5	33.5	21.7	9.8	25.1	42.4
Iran, Islamic Rep.	839	10.9	6.9	42.9	3.1	36.2	10.9	17.0	19.2	8.5	13.8
Ireland	729	44.2	4.5	38.7	2.2	10.4	44.2	3.9	6.4	38.6	49.4
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	57.1	1.9	33.0	0.9	7.0	57.1	3.3	3.7	50.2	63.8
Korea	696	63.2	1.0	33.5	1.2	1.2	63.2	0.9	0.2	53.8	72.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	44.5	0.3	26.1	0.5	28.5	44.5	14.3	14.2	44.0	45.0
Netherlands	701	58.3	10.2	26.5	0.5	4.5	58.3	1.2	3.3	50.0	65.1
New Zealand	621	38.4	5.8	38.8	1.3	15.8	38.4	11.1	4.7	38.9	37.8
Norway	548	29.6	7.8	25.9	0.8	36.0	29.6	28.4	7.6	22.9	36.2
Portugal	673	30.6	2.6	27.5	0.9	38.5	30.6	26.4	12.1	28.0	33.1
Scotland	797	36.7	3.5	44.3	1.0	14.6	36.7	8.1	6.5	31.0	42.5
Singapore	1753	57.3	1.8	38.2	0.9	1.8	57.3	0.7	1.1	53.3	61.0
Slovenia	629	52.8	1.7	24.4	1.0	20.1	52.8	11.0	9.0	48.8	56.4
Thailand	726	33.0	5.6	46.9	0.5	14.0	33.0	6.8	7.2	36.1	29.9
United States	972	40.6	5.0	48.6	0.8	5.0	40.6	1.9	3.1	39.5	41.7
INTERNATIONAL AVG	.	44.0	3.8	33.2	1.1	17.9	44.0	10.2	7.7	40.0	47.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U03B
 Solve word problem using proportions: $1/3 = 9/?$ (Fractions and Proportionality)
 Difficulty: 618

COUNTRY	N	10	70	79	90	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	1189	28.9	29.1	28.1	1.3	12.6	28.9	6.3	6.3	25.4	32.6
Austria	634	40.2	19.2	17.8	1.8	20.9	40.2	7.9	13.1	33.3	46.4
Canada	1914	22.7	23.0	40.2	0.8	13.4	22.7	8.6	4.8	19.4	26.1
Cyprus	844	10.8	29.8	27.3	0.9	31.1	10.8	18.1	13.1	7.3	14.3
Czech Republic	823	40.4	23.7	11.6	1.7	22.6	40.4	15.6	7.1	36.3	44.4
England	771	22.5	23.4	36.7	1.3	16.1	22.5	10.2	5.9	21.1	23.9
Greece	748	18.2	23.2	24.3	0.9	33.4	18.2	13.7	19.8	11.1	25.9
Hong Kong	1084	53.5	21.8	18.3	0.2	6.2	53.5	2.0	4.2	49.5	57.1
Hungary	763	29.8	26.1	14.3	1.0	28.8	29.8	21.4	7.4	27.4	32.9
Iceland	426	14.9	21.7	25.7	1.0	36.7	14.9	24.8	11.9	10.3	19.8
Iran, Islamic Rep.	839	3.7	18.6	35.3	2.9	39.5	3.7	19.4	20.1	1.4	6.4
Ireland	729	26.9	24.9	33.5	1.4	13.3	26.9	5.0	8.4	24.5	29.2
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	45.3	25.0	20.8	0.8	8.2	45.3	5.0	3.1	40.5	49.8
Korea	696	41.4	17.5	37.9	1.8	1.4	41.4	0.9	0.4	37.4	45.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	28.0	8.2	31.9	0.6	31.3	28.0	16.2	15.1	29.9	26.1
Netherlands	701	39.0	35.6	21.5	0.3	3.7	39.0	1.4	2.3	32.7	44.1
New Zealand	621	20.0	29.0	32.2	1.7	17.2	20.0	11.9	5.3	21.9	17.8
Norway	548	17.5	24.5	16.9	1.2	39.9	17.5	30.2	9.7	16.6	18.3
Portugal	673	12.4	15.1	28.2	0.9	43.4	12.4	28.5	14.9	10.4	14.5
Scotland	797	29.4	9.8	43.7	1.0	16.1	29.4	9.5	6.6	23.9	34.8
Singapore	1753	47.7	20.5	28.7	0.9	2.3	47.7	0.8	1.4	45.9	49.3
Slovenia	629	35.7	19.1	19.3	1.2	24.7	35.7	14.1	10.5	30.9	40.2
Thailand	726	19.7	24.6	40.6	0.5	14.5	19.7	8.8	5.7	22.1	17.3
United States	972	22.9	30.3	40.6	0.7	5.5	22.9	2.5	3.0	24.5	21.3
INTERNATIONAL AVG	.	28.0	22.6	28.1	1.1	20.1	28.0	11.8	8.3	25.2	30.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U03C
 Solve two proportions and compare results. (Fractions and Proportionality)
 Difficulty: 445

COUNTRY	N	10	11	70	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
									REACH ED			
Australia	1189	63.8	6.3	10.5	4.9	1.3	13.2	70.1	7.2	6.0	72.6	67.5
Austria	634	56.6	9.3	9.1	1.3	2.9	20.8	65.8	10.4	10.5	66.4	65.5
Canada	1914	39.2	28.1	8.6	8.0	2.4	13.7	67.3	9.1	4.6	67.9	66.0
Cyprus	843	40.1	9.9	11.9	3.4	3.3	31.4	50.0	19.0	12.4	47.3	52.5
Czech Republic	822	53.0	10.7	8.0	3.2	1.4	23.8	63.7	17.2	6.6	63.3	64.0
England	771	53.2	12.3	11.1	2.3	4.7	16.4	65.5	11.1	5.3	65.3	65.7
Greece	748	29.4	15.2	11.1	8.9	2.0	33.4	44.6	14.5	19.0	39.7	49.8
Hong Kong	1085	57.9	10.8	13.6	4.3	7.2	6.2	68.7	2.2	4.0	69.8	67.6
Hungary	763	33.5	22.9	9.9	3.6	1.9	28.3	56.4	23.8	4.5	55.1	58.2
Iceland	426	21.0	29.2	10.4	4.5	0.2	34.7	50.2	27.9	6.8	46.1	54.6
Iran, Islamic Rep.	839	21.7	1.2	0.1	16.5	1.2	59.3	23.0	20.0	39.3	20.7	25.6
Ireland	729	55.7	13.2	9.0	4.2	5.5	12.4	68.9	6.0	6.4	69.3	68.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	60.5	17.6	9.8	3.4	1.0	7.8	78.0	5.5	2.3	78.4	77.7
Korea	696	40.8	20.2	25.0	10.3	2.2	1.4	61.1	0.9	0.4	61.3	60.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	34.3	16.5	5.7	12.6	0.6	30.4	50.7	17.2	13.2	55.4	45.9
Netherlands	701	64.6	15.0	12.6	3.8	0.8	3.2	79.6	1.9	1.3	82.6	77.5
New Zealand	621	45.3	18.0	11.3	6.4	1.6	17.3	63.3	12.3	5.0	69.4	56.0
Norway	548	39.2	9.8	9.8	1.3	0.8	39.1	49.1	32.3	6.8	47.1	51.9
Portugal	673	37.8	9.5	6.3	3.1	1.4	41.9	47.2	30.4	11.4	46.9	47.6
Scotland	797	54.6	14.0	6.1	8.7	1.0	15.5	68.6	10.6	4.9	68.4	68.5
Singapore	1753	66.8	10.9	7.3	10.5	2.3	2.1	77.7	0.9	1.3	80.7	75.0
Slovenia	629	55.4	10.1	5.5	2.5	1.3	25.2	65.5	16.4	8.8	62.2	68.4
Thailand	726	26.1	26.2	17.4	13.6	2.2	14.5	52.3	9.2	5.3	57.2	47.1
United States	972	60.2	13.6	10.6	9.3	0.6	5.6	73.8	2.6	3.0	77.9	69.7
INTERNATIONAL AVG	.	46.3	14.6	10.0	6.3	2.1	20.7	60.9	12.9	7.9	61.3	60.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U04
 Explain operation used to find next number in a pattern. (Patterns, Relations and Functions)
 Difficulty: 552

COUNTRY	N	10	11	19	70	71	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
											REACH ED			
Australia	1189	33.3	20.2	0.7	3.0	2.4	27.7	1.1	11.7	54.2	7.6	4.1	48.4	60.3
Austria	634	29.9	9.6	1.9	4.3	1.0	16.7	8.9	27.8	41.4	10.8	17.0	42.8	40.1
Canada	1914	22.4	15.2	0.5	2.7	5.2	34.8	1.9	17.4	38.0	10.3	7.1	33.4	43.4
Cyprus	847	21.5	19.4	0.4	0.8	0.5	25.2	0.4	31.7	41.3	19.4	12.3	38.6	44.0
Czech Republic	822	29.3	10.4	1.9	2.0	1.4	20.7	3.7	30.6	41.6	18.1	12.6	40.8	42.4
England	771	26.3	14.1	0.4	7.6	2.8	26.2	5.7	17.1	40.7	11.5	5.5	38.2	43.3
Greece	747	14.0	11.8	1.2	6.1	0.2	30.8	2.7	33.1	27.0	14.7	18.4	23.9	30.5
Hong Kong	1057	17.4	25.8	0.1	1.4	1.7	42.0	2.4	9.0	43.4	2.3	6.7	41.0	45.3
Hungary	763	45.9	15.5	0.1	0.8	0.9	5.2	0.5	31.0	61.5	24.5	6.5	63.4	59.3
Iceland	426	7.3	6.7	0.9	4.7	0.4	32.8	4.9	42.4	14.8	28.5	14.0	11.7	18.0
Iran, Islamic Rep.	839	6.0	8.3	0.0	0.5	0.0	27.8	1.4	56.0	14.3	21.3	34.7	12.4	16.5
Ireland	729	32.0	20.8	0.7	6.5	4.0	23.2	1.9	10.8	53.6	6.5	4.4	50.2	56.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	33.5	4.9	1.2	6.4	2.2	38.0	1.7	12.0	39.7	5.9	6.1	39.5	39.9
Korea	696	43.5	8.6	3.7	8.0	1.6	29.3	4.2	1.0	55.9	0.9	0.1	56.7	55.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	35.9	11.3	3.7	0.5	0.4	22.1	0.2	25.8	51.0	17.3	8.5	56.8	45.0
Netherlands	701	32.7	25.2	0.1	3.9	0.9	30.0	0.7	6.5	58.0	1.9	4.6	57.1	59.1
New Zealand	621	20.3	13.7	0.2	5.3	2.0	37.3	1.9	19.3	34.2	12.8	6.5	35.8	32.1
Norway	548	9.4	10.9	0.0	3.1	1.4	23.9	3.4	47.9	20.3	32.9	15.0	17.4	23.3
Portugal	673	6.1	4.6	6.2	1.2	1.4	19.5	4.3	56.6	17.0	31.4	25.2	15.4	18.6
Scotland	797	0.8	13.0	30.1	5.6	1.9	29.1	1.9	17.6	43.9	11.0	6.5	39.1	48.9
Singapore	1751	17.8	54.7	0.0	1.5	0.6	22.0	1.1	2.3	72.5	0.9	1.4	73.3	71.8
Slovenia	626	32.2	12.2	1.2	2.4	0.0	13.4	5.0	33.6	45.5	17.0	16.6	42.7	48.2
Thailand	.	.	.	.	.	.	.	.	.	.	.	.	.	.
United States	972	20.5	19.0	0.6	3.0	4.8	44.1	0.8	7.1	40.1	2.6	4.5	39.5	40.6
INTERNATIONAL AVG	.	23.4	15.5	2.4	3.5	1.6	27.0	2.6	23.8	41.3	13.5	10.4	39.9	42.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: U05
 Write addition fact as a multiplication fact. (Whole Numbers)
 Difficulty: 418

COUNTRY	N	10	11	19	70	71	72	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH			% Right	% Right
												ED			
Australia	1189	39.0	17.5	0.1	3.0	1.3	4.8	19.1	0.1	15.1	56.6	9.9	5.2	54.7	58.6
Austria	634	54.5	16.3	0.0	0.5	0.1	1.3	8.9	1.5	16.9	70.8	15.0	1.9	73.9	68.3
Canada	1914	36.1	22.1	0.0	2.4	3.2	3.0	17.2	1.0	15.0	58.2	13.5	1.5	55.8	61.6
Cyprus	847	52.3	10.8	0.0	2.5	1.1	1.9	7.4	0.0	24.0	63.1	22.7	1.3	64.7	61.5
Czech Republic	822	41.6	21.5	0.0	0.6	0.3	1.9	8.1	0.3	25.7	63.2	23.4	2.3	65.6	60.8
England	771	25.7	13.3	0.0	3.3	2.3	8.8	25.5	1.7	19.4	39.0	13.5	5.9	37.9	40.2
Greece	747	46.9	11.2	0.0	2.3	1.3	0.9	16.8	0.9	19.8	58.0	17.7	2.1	55.6	60.7
Hong Kong	1059	18.8	69.9	0.0	0.1	0.3	1.4	5.2	0.1	4.2	88.8	4.1	0.1	88.6	88.8
Hungary	763	51.0	10.1	0.3	0.5	0.2	1.2	3.7	0.7	32.2	61.4	29.6	2.6	64.4	59.0
Iceland	426	29.3	8.3	0.2	1.0	2.1	4.1	18.0	0.3	36.5	37.9	33.8	2.7	33.1	42.9
Iran, Islamic Rep.	839	43.4	19.1	0.0	3.2	0.3	0.0	8.4	1.6	24.1	62.4	22.7	1.4	62.5	62.4
Ireland	729	60.2	14.2	0.0	1.0	2.2	1.2	11.1	0.1	9.9	74.4	8.4	1.5	77.8	71.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1077	7.2	78.4	0.0	1.2	0.1	0.2	3.7	0.7	8.5	85.6	7.7	0.8	83.0	88.2
Korea	696	8.4	82.4	0.0	0.3	1.7	0.4	3.4	2.2	1.3	90.7	1.0	0.3	91.7	89.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	501	23.2	43.0	0.2	0.4	0.0	1.0	8.4	0.0	23.9	66.3	19.8	4.1	71.2	61.3
Netherlands	701	64.6	13.4	0.0	0.7	0.5	3.8	13.3	0.1	3.6	78.0	2.9	0.7	76.5	79.2
New Zealand	621	32.2	13.0	0.0	2.6	2.7	4.9	25.0	0.2	19.4	45.2	17.1	2.4	45.8	44.3
Norway	547	23.5	12.2	0.3	1.1	0.9	4.7	13.6	1.6	42.1	35.9	38.4	3.7	32.2	40.3
Portugal	673	25.2	26.7	0.0	2.2	0.6	0.9	5.8	0.3	38.2	51.9	36.5	1.7	51.1	52.8
Scotland	797	25.5	26.0	0.0	3.9	2.1	4.9	19.6	0.6	17.4	51.5	14.3	3.1	50.1	52.7
Singapore	1753	56.4	30.4	0.0	1.0	0.2	2.0	7.8	0.2	2.0	86.7	1.7	0.3	87.9	85.6
Slovenia	626	52.5	16.8	0.2	0.7	0.0	0.1	4.1	0.1	25.5	69.5	24.4	1.1	69.4	69.5
Thailand	726	17.9	36.3	0.1	1.1	0.5	1.2	24.2	0.4	18.4	54.3	14.5	4.0	57.9	50.6
United States	972	30.6	36.3	0.3	3.2	4.2	1.6	17.9	0.6	5.4	67.2	4.4	0.9	69.8	64.5
INTERNATIONAL AVG	.	36.1	27.0	0.1	1.6	1.2	2.3	12.3	0.6	18.7	63.2	16.5	2.1	63.4	63.1

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: V01
 Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate. (Fractions and Proportionality)
 Difficulty: 686

COUNTRY	N	NOT REACHED												V1	V2	ED	OMIT	1.GIRL % Right	2.BOY % Right	
		20	10	11	12	13	19	70	71	72	79	90	99							
Australia	1189	12.8	1.4	9.1	11.6	3.0	0.3	4.1	13.0	16.8	20.4	1.0	6.4	38.3	12.8	2.6	3.8	10.8	14.9	
Austria	633	8.2	14.7	6.4	3.3	2.5	0.4	32.4	5.2	4.5	6.5	4.1	11.8	35.6	8.2	3.2	8.6	5.1	11.2	
Canada	1904	8.1	6.0	3.8	8.6	5.1	1.8	10.0	4.1	13.2	26.9	4.1	8.3	33.4	8.1	4.9	3.4	9.1	6.8	
Cyprus	852	10.9	4.8	14.0	7.9	2.9	3.9	4.2	1.6	7.4	21.2	1.3	19.9	44.4	10.9	9.2	10.7	11.5	10.0	
Czech Republic	806	8.6	10.7	7.5	11.4	3.3	0.0	12.9	11.2	5.9	13.5	1.3	13.7	41.4	8.6	6.9	6.8	7.0	10.2	
England	756	9.3	4.8	13.7	6.6	2.7	8.1	9.8	12.0	7.6	14.9	5.7	4.9	45.1	9.3	2.6	2.3	8.7	10.0	
Greece	738	7.6	11.4	7.2	14.3	2.5	0.7	11.1	2.1	4.4	12.9	2.3	23.4	43.8	7.6	6.5	17.0	6.8	8.5	
Hong Kong	1104	28.2	3.6	13.4	3.0	15.6	4.7	1.9	0.1	13.6	10.2	3.4	2.2	68.6	28.2	0.5	1.7	27.6	29.0	
Hungary	758	12.1	3.7	8.4	9.6	5.4	8.9	8.7	9.6	3.6	11.0	2.3	16.7	48.0	12.1	11.9	4.8	13.7	10.8	
Iceland	429	13.0	12.5	5.9	6.8	8.4	3.2	11.2	0.8	4.5	12.8	0.2	20.7	49.7	13.0	17.0	3.8	14.4	11.5	
Iran, Islamic Rep.	841	1.9	3.1	1.6	1.4	1.9	8.3	8.0	0.3	2.2	17.2	4.8	49.2	18.3	1.9	11.8	37.4	2.9	0.7	
Ireland	736	15.2	4.5	14.1	9.2	3.4	0.4	9.7	11.0	12.9	10.3	4.9	4.3	46.7	15.2	2.1	2.2	17.6	13.1	
Israel
Japan	1082	23.9	4.3	12.9	10.0	8.5	1.9	6.6	4.9	13.4	9.2	1.5	3.0	61.5	23.9	1.2	1.9	25.3	22.6	
Korea	700	31.5	3.0	11.9	5.4	9.5	6.1	1.7	5.2	12.8	11.3	0.9	0.9	67.3	31.5	0.1	0.8	30.3	32.6	
Kuwait
Latvia (LSS)	515	9.4	15.1	7.3	5.9	2.3	0.6	10.0	4.1	5.7	13.4	1.5	24.7	40.7	9.4	6.8	17.9	10.2	8.6	
Netherlands	715	14.1	6.9	8.5	7.4	6.0	0.3	11.3	11.3	10.5	17.4	2.2	4.0	43.3	14.1	0.0	4.0	14.4	13.6	
New Zealand	629	7.6	4.4	7.8	9.8	5.6	0.0	7.6	18.6	8.6	13.9	1.4	14.7	35.2	7.6	7.9	6.8	7.1	8.1	
Norway	543	3.6	15.1	3.6	6.6	1.1	0.0	21.5	5.9	3.7	7.9	3.0	28.1	29.9	3.6	21.3	6.8	4.5	2.5	
Portugal	658	3.7	15.2	4.5	5.4	0.7	0.7	23.4	0.7	8.1	7.6	1.1	28.9	30.1	3.7	15.6	13.3	3.2	4.1	
Scotland	781	6.7	5.7	10.9	10.0	2.7	2.5	9.4	10.6	13.4	19.5	1.0	7.5	38.6	6.7	3.6	3.9	7.1	6.3	
Singapore	1743	47.8	5.1	6.9	1.2	15.2	0.1	5.2	0.4	5.0	9.9	2.5	0.6	76.3	47.8	0.2	0.4	49.7	46.2	
Slovenia	641	10.9	21.0	6.6	4.7	3.5	0.3	28.4	5.1	3.5	5.4	0.8	9.7	47.0	10.9	4.8	5.0	11.4	10.3	
Thailand	658	8.1	19.8	3.8	3.1	3.5	0.4	22.0	0.4	8.2	9.0	7.0	14.7	38.6	8.1	2.3	12.4	8.4	7.8	
United States	965	10.3	4.5	9.3	11.6	6.3	0.6	11.1	14.7	13.4	15.9	0.2	2.2	42.6	10.3	0.7	1.5	10.1	10.4	
INTERNATIONAL AVG	.	13.1	8.4	8.3	7.3	5.1	2.3	11.7	6.4	8.5	13.3	2.4	13.4	44.3	13.1	6.0	7.4	13.2	12.9	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: V02
 Write the number that is 1000 more than 56,821. (Whole Numbers)
 Difficulty: 603

COUNTRY	N	10	70	71	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
									REACH ED			
Australia	1189	29.3	16.1	8.1	28.4	1.2	16.9	29.3	4.4	12.5	20.5	38.3
Austria	633	29.3	12.0	3.0	14.5	14.1	27.2	29.3	5.6	21.6	21.5	36.7
Canada	1904	25.2	15.3	4.8	36.6	2.8	15.2	25.2	6.5	8.7	21.5	29.7
Cyprus	855	15.8	9.6	1.8	33.7	0.5	38.6	15.8	12.1	26.5	13.0	18.3
Czech Republic	804	41.1	13.1	3.1	22.8	0.9	18.9	41.1	8.4	10.5	33.8	48.1
England	756	19.1	14.2	8.3	36.9	4.2	17.3	19.1	3.5	13.8	14.8	23.3
Greece	738	20.4	4.4	2.7	21.3	2.0	49.2	20.4	10.1	39.1	16.5	24.2
Hong Kong	1104	42.0	13.0	3.7	32.7	2.9	5.7	42.0	0.8	4.9	37.5	45.7
Hungary	758	30.4	24.5	2.6	17.1	2.0	23.5	30.4	13.8	9.6	26.1	33.8
Iceland	429	13.5	9.9	2.3	31.1	2.8	40.6	13.5	18.9	21.6	8.0	19.5
Iran, Islamic Rep.	842	7.4	9.2	1.6	28.6	1.1	52.1	7.4	16.9	35.1	7.7	7.1
Ireland	736	27.0	18.6	3.8	33.5	4.1	13.0	27.0	3.1	9.9	22.9	30.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1082	68.7	7.9	4.8	12.6	1.3	4.7	68.7	1.6	3.1	62.3	74.7
Korea	700	72.6	9.8	4.2	11.3	1.4	0.6	72.6	0.6	0.0	70.4	74.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	515	15.8	6.9	2.0	44.0	1.6	29.8	15.8	10.0	19.7	14.8	16.8
Netherlands	715	23.6	12.7	4.6	47.8	5.6	5.8	23.6	1.9	3.9	17.1	29.7
New Zealand	629	16.6	11.6	8.5	40.2	1.7	21.5	16.6	12.1	9.4	12.7	20.4
Norway	543	15.4	15.5	6.4	17.2	3.0	42.6	15.4	23.8	18.7	8.2	22.4
Portugal	658	20.6	5.9	3.4	25.6	1.3	43.2	20.6	21.2	21.9	16.4	24.9
Scotland	781	16.7	12.6	7.0	42.7	3.0	18.2	16.7	5.7	12.4	14.1	18.9
Singapore	1743	66.1	6.5	1.0	24.5	1.1	0.9	66.1	0.3	0.5	66.7	65.5
Slovenia	641	40.8	14.2	2.4	16.7	1.6	24.4	40.8	6.2	18.1	35.7	45.6
Thailand	658	24.3	8.1	4.8	45.9	5.0	11.9	24.3	6.4	5.5	23.4	25.4
United States	965	31.4	15.3	8.4	37.5	0.5	6.9	31.4	1.7	5.2	26.9	35.7
INTERNATIONAL AVG	.	29.7	12.0	4.3	29.3	2.7	22.0	29.7	8.2	13.8	25.5	33.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: V03
 What is 5 less than 203? (Whole Numbers)
 Difficulty: 519

COUNTRY	N	10	70	71	72	79	90	99	V1	NOT	1.GIRL	2.BOY	
										REACH			ED	% Right	% Right
Australia	1189	53.1	2.0	0.3	0.7	29.6	0.4	13.9	53.1	7.3	6.7	45.8	60.6
Austria	633	69.6	2.0	0.4	1.3	8.3	2.3	15.9	69.6	8.7	7.3	64.9	74.2
Canada	1904	47.0	1.3	1.3	0.8	33.8	2.5	13.3	47.0	9.3	4.0	47.3	47.8
Cyprus	855	31.3	0.3	0.9	0.8	30.9	0.2	35.8	31.3	19.8	16.0	29.9	33.0
Czech Republic	805	60.6	0.3	0.3	1.2	20.1	0.8	16.8	60.6	11.8	4.9	56.4	64.6
England	756	43.6	1.9	0.8	0.4	37.3	2.4	13.6	43.6	5.8	7.8	37.3	49.6
Greece	738	34.1	0.2	0.9	0.8	21.2	1.3	41.5	34.1	14.8	26.7	31.1	37.1
Hong Kong	1105	58.2	0.9	3.5	2.3	23.5	5.1	6.6	58.2	1.6	5.1	55.7	60.3
Hungary	758	60.9	0.9	0.1	3.3	11.0	1.9	21.8	60.9	18.3	3.6	62.3	59.6
Iceland	429	22.8	2.6	0.6	1.3	32.6	2.4	37.7	22.8	26.7	11.0	17.6	28.5
Iran, Islamic Rep.	842	20.5	0.3	0.1	0.9	28.8	2.6	46.8	20.5	20.3	26.5	14.9	27.3
Ireland	736	56.3	2.5	0.2	0.8	29.0	2.8	8.4	56.3	4.6	3.8	52.7	59.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1082	71.8	1.7	0.2	1.5	18.7	0.8	5.3	71.8	3.8	1.5	66.0	77.3
Korea	700	77.7	0.8	0.1	1.5	17.7	1.6	0.6	77.7	0.6	0.0	71.9	83.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	515	39.9	0.2	0.9	1.4	31.6	1.0	25.0	39.9	12.8	12.2	38.8	41.2
Netherlands	715	52.9	2.0	2.5	0.6	32.3	4.8	4.9	52.9	2.8	2.1	48.9	56.7
New Zealand	629	34.9	1.3	1.3	0.3	40.1	0.2	21.8	34.9	14.8	6.9	29.0	40.7
Norway	543	38.9	1.2	0.1	0.1	22.6	0.6	36.5	38.9	27.5	8.9	35.3	43.4
Portugal	658	22.8	0.6	2.0	2.0	27.7	0.7	44.2	22.8	26.6	17.6	17.9	27.7
Scotland	781	44.4	1.4	0.0	0.4	37.4	1.6	14.7	44.4	8.8	5.8	41.0	47.6
Singapore	1743	74.7	0.9	0.0	6.2	17.0	0.4	0.8	74.7	0.4	0.4	77.3	72.4
Slovenia	641	62.6	1.7	0.2	1.2	11.3	2.4	20.5	62.6	9.6	10.9	62.5	62.6
Thailand	658	23.9	0.3	4.0	5.5	48.4	4.2	13.7	23.9	8.5	5.1	23.5	24.2
United States	965	47.8	1.3	0.9	1.5	41.4	0.5	6.7	47.8	3.3	3.4	47.6	47.9
INTERNATIONAL AVG	.	47.9	1.2	0.9	1.5	27.2	1.8	19.4	47.9	11.2	8.3	44.8	51.1

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.
 Because of missing gender information, some totals may appear inconsistent

Item: V04A
 Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know? (Whole Numbers)
 Difficulty: 698

COUNTRY	N	20	10	11	12	13	19	70	71	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
															REACH		% Right	% Right	
														ED					
Australia	1189	15.5	1.2	3.4	8.7	1.5	42.3	4.5	7.1	3.8	1.1	10.9	72.6	15.5	7.8	3.2	15.2	15.8	
Austria	633	13.9	2.6	3.6	18.2	6.7	20.4	4.3	7.1	5.9	2.2	15.0	65.4	13.9	9.3	5.7	17.5	10.2	
Canada	1904	26.5	2.1	3.0	9.1	5.1	24.1	2.2	5.7	7.8	2.6	12.0	69.8	26.5	9.7	2.3	32.7	20.8	
Cyprus	696	12.4	1.6	2.1	4.7	2.5	16.3	7.6	9.1	5.7	1.4	36.6	39.6	12.4	25.0	11.6	14.4	10.7	
Czech Republic	806	11.5	2.9	9.6	5.2	5.9	11.4	17.4	6.9	10.4	1.1	17.8	46.5	11.5	12.9	5.0	11.5	11.5	
England	756	5.3	1.3	4.0	8.9	4.3	41.3	4.1	9.9	5.7	4.2	10.9	65.1	5.3	6.9	4.0	6.2	4.4	
Greece	738	17.3	1.3	7.3	14.5	5.6	13.9	3.1	8.6	5.5	1.6	21.3	59.9	17.3	15.2	6.2	18.4	16.2	
Hong Kong	1107	12.8	3.7	3.9	13.3	12.4	39.1	0.3	4.3	4.2	1.6	4.6	85.2	12.8	1.9	2.7	12.1	12.8	
Hungary	758	38.5	2.0	3.4	3.9	2.8	11.2	5.2	2.9	3.4	2.3	24.5	61.8	38.5	19.3	5.3	42.1	35.9	
Iceland	429	12.3	3.9	12.9	7.0	1.3	20.7	1.1	4.0	5.6	0.3	31.0	58.1	12.3	28.0	3.0	15.3	9.1	
Iran, Islamic Rep.	842	6.9	1.4	16.7	5.0	6.9	5.6	0.6	7.7	13.5	1.4	34.3	42.4	6.9	21.8	12.5	7.8	5.8	
Ireland	736	10.5	3.9	2.2	17.3	1.2	37.3	6.4	7.7	3.4	2.0	8.2	72.3	10.5	4.9	3.3	11.9	9.2	
Israel
Japan	1082	25.2	2.9	1.2	31.7	0.3	25.5	0.6	3.8	0.6	0.7	7.5	86.8	25.2	4.1	3.4	24.8	25.6	
Korea	700	47.0	23.1	1.7	3.4	0.5	18.6	0.0	2.6	0.6	1.6	0.9	94.3	47.0	0.6	0.2	49.5	44.7	
Kuwait
Latvia (LSS)	515	2.9	8.4	13.4	8.1	4.6	7.3	4.9	7.7	17.3	0.1	25.2	44.7	2.9	13.5	11.7	3.9	1.9	
Netherlands	715	8.4	1.0	2.8	6.5	1.8	30.3	10.8	15.2	17.7	0.5	5.0	50.8	8.4	2.9	2.1	8.3	8.6	
New Zealand	629	6.0	2.8	3.3	12.4	4.8	28.0	7.8	8.6	3.8	1.3	21.1	57.3	6.0	16.1	5.0	7.2	4.9	
Norway	543	2.1	3.0	8.6	2.6	1.4	26.1	3.8	9.1	3.8	2.5	37.1	43.7	2.1	28.9	8.1	1.9	2.3	
Portugal	658	18.8	2.6	5.1	13.2	2.2	12.2	1.3	6.9	4.6	0.8	32.3	54.1	18.8	27.5	4.9	16.1	21.4	
Scotland	781	7.4	3.3	4.8	11.6	1.8	39.5	1.7	8.0	6.8	1.2	14.0	68.3	7.4	9.8	4.2	6.7	8.2	
Singapore	1743	25.9	3.9	0.9	29.7	2.5	25.5	0.9	3.3	5.1	0.9	1.3	88.4	25.9	0.4	0.9	26.6	25.3	
Slovenia	641	33.2	1.9	9.1	13.3	1.3	9.1	4.5	4.2	8.8	0.7	13.7	68.1	33.2	10.2	3.5	39.9	27.0	
Thailand	658	0.2	0.7	2.2	0.2	0.5	53.7	1.9	10.2	11.4	5.3	13.6	57.6	0.2	9.4	4.2	0.0	0.4	
United States	965	16.1	3.4	1.3	18.3	1.2	38.7	0.6	8.4	7.2	0.4	4.6	78.9	16.1	3.6	1.0	20.6	11.8	
INTERNATIONAL AVG	.	15.7	3.5	5.3	11.1	3.3	24.9	4.0	7.0	6.8	1.6	16.8	63.8	15.7	12.1	4.8	17.1	14.4	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better
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Item: V04B

Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above. (Whole Numbers)

Difficulty: 590

COUNTRY	N	10	70	71	72	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
										REACH		% Right	% Right
										ED			
Australia	1189	35.3	22.8	9.8	13.5	1.4	0.3	17.0	35.3	9.9	7.1	33.9	36.8
Austria	633	35.4	17.5	8.3	13.9	0.2	2.0	22.7	35.4	11.2	11.5	35.5	35.1
Canada	1904	29.9	20.1	7.4	20.0	4.5	0.5	17.7	29.9	11.4	6.3	31.9	27.6
Cyprus	696	13.3	13.6	4.2	13.5	13.0	0.1	42.4	13.3	32.8	9.7	10.8	15.9
Czech Republic	805	22.9	15.8	9.7	13.6	4.9	1.7	31.4	22.9	16.6	14.7	24.7	21.2
England	756	33.6	29.1	5.9	13.3	0.8	1.0	16.3	33.6	9.5	6.8	32.6	34.6
Greece	738	23.2	17.7	10.0	14.2	5.4	1.3	28.3	23.2	16.8	11.5	25.8	20.6
Hong Kong	1106	67.4	9.8	5.2	8.1	3.2	0.4	5.8	67.4	2.5	3.3	65.2	69.9
Hungary	758	31.2	9.4	9.3	15.4	0.5	2.1	32.0	31.2	23.7	8.3	33.0	30.1
Iceland	429	23.0	6.7	7.8	13.0	13.5	0.0	36.0	23.0	30.1	5.9	25.0	20.8
Iran, Islamic Rep.	842	7.3	17.3	3.8	6.5	26.0	2.6	36.5	7.3	25.3	11.3	6.0	8.8
Ireland	736	34.9	27.8	8.4	14.2	2.3	0.8	11.5	34.9	6.8	4.8	38.1	32.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1082	58.8	7.6	10.7	12.4	0.3	0.4	9.8	58.8	6.6	3.3	57.1	60.4
Korea	700	48.3	18.8	9.7	4.6	14.8	2.6	1.2	48.3	0.6	0.6	45.3	51.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	515	17.5	17.0	4.2	12.2	18.5	0.9	29.7	17.5	16.8	12.8	19.1	15.9
Netherlands	715	34.8	44.4	5.5	7.7	1.1	0.2	6.3	34.8	3.6	2.7	36.3	33.4
New Zealand	629	27.6	24.4	7.4	13.9	0.5	0.5	25.6	27.6	18.8	6.8	31.9	23.4
Norway	543	21.7	17.6	4.6	8.2	2.0	1.9	44.0	21.7	33.8	10.2	22.8	20.9
Portugal	658	16.6	14.0	7.3	11.5	7.1	0.9	42.6	16.6	29.9	12.6	13.0	20.3
Scotland	781	32.1	23.8	8.1	12.0	3.8	0.8	19.3	32.1	12.7	6.6	33.5	30.7
Singapore	1743	51.7	10.8	9.6	20.2	4.9	0.6	2.1	51.7	0.9	1.2	52.5	50.9
Slovenia	640	30.6	7.6	13.5	21.0	5.3	0.8	21.3	30.6	12.9	8.4	33.0	28.4
Thailand	658	8.3	29.2	3.9	27.4	1.3	0.0	29.8	8.3	11.3	18.5	10.8	5.5
United States	965	37.4	22.1	10.4	20.7	1.3	1.2	7.0	37.4	3.9	3.1	39.5	35.5
INTERNATIONAL AVG	.	31.0	18.5	7.7	13.8	5.7	1.0	22.4	31.0	14.5	7.8	31.6	30.4

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Item: V05
 How many millimeters are in a meter? (Measurement, Estimation, & Number Sense)
 Difficulty: 585

COUNTRY	N	10	11	70	71	72	73	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH			% Right	% Right
												ED			
Australia	1189	32.8	0.2	4.4	1.6	16.5	1.2	23.1	0.7	19.5	33.0	13.7	5.9	28.8	37.2
Austria	633	52.8	0.1	3.5	1.1	17.7	0.8	3.7	0.7	19.5	52.9	15.8	3.7	47.7	58.0
Canada	1904	21.8	0.5	6.7	1.0	18.9	0.6	29.5	1.2	19.9	22.3	15.5	4.3	21.7	24.2
Cyprus	696	11.1	0.5	2.1	0.0	20.0	0.0	19.4	0.3	46.6	11.6	39.4	7.2	13.7	9.7
Czech Republic	805	49.2	0.5	2.6	0.1	10.0	1.0	5.7	0.5	30.4	49.7	25.1	5.4	46.1	53.1
England	756	19.4	0.4	4.2	1.2	20.4	1.6	30.2	1.3	21.3	19.7	14.1	7.2	16.3	23.0
Greece	738	22.8	1.5	4.3	1.1	16.0	0.1	15.5	0.6	38.1	24.4	24.1	13.9	28.2	20.5
Hong Kong	1106	50.4	0.3	8.6	0.3	21.2	5.5	8.0	0.3	5.4	50.7	3.5	1.9	48.6	52.2
Hungary	758	40.9	0.8	4.0	0.0	11.9	1.0	5.6	1.5	34.2	41.8	30.4	3.8	40.9	41.2
Iceland	429	14.3	0.2	5.7	0.1	15.8	0.7	15.8	1.8	45.6	14.5	35.1	10.5	11.1	18.3
Iran, Islamic Rep.	842	26.1	0.2	11.4	0.0	9.6	0.1	8.6	0.2	43.6	26.3	29.8	13.8	23.5	29.8
Ireland	736	19.6	0.4	3.8	2.5	26.9	0.0	28.9	1.8	16.0	20.0	9.6	6.4	18.2	21.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1082	55.6	0.1	4.4	0.8	20.1	3.7	4.6	0.4	10.3	55.7	9.0	1.3	53.4	57.8
Korea	700	33.7	0.1	30.6	0.3	25.0	1.5	5.7	2.4	0.6	33.8	0.6	0.0	28.6	38.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	515	51.0	0.2	2.6	0.2	15.1	1.1	5.1	1.0	23.6	51.2	19.1	4.5	50.3	51.9
Netherlands	715	29.9	0.1	11.1	1.0	26.1	1.7	22.7	0.2	7.1	30.1	5.1	2.0	24.2	35.4
New Zealand	629	21.5	0.1	3.5	2.1	15.3	1.2	27.4	0.4	28.4	21.6	23.0	5.5	17.5	25.6
Norway	542	17.0	0.0	5.3	2.0	14.5	1.0	11.7	2.1	46.4	17.0	40.0	6.4	13.5	21.2
Portugal	658	25.4	5.7	4.2	0.0	8.8	0.3	9.0	0.3	46.3	31.1	36.7	9.6	29.0	33.2
Scotland	781	14.7	0.1	5.5	2.6	24.8	0.7	28.3	0.5	22.8	14.8	17.0	5.9	14.2	15.6
Singapore	1743	36.6	0.4	3.8	0.2	23.8	2.8	28.2	0.9	3.2	37.0	1.6	1.7	37.2	36.8
Slovenia	640	54.2	0.5	2.1	0.3	11.3	1.1	7.1	1.2	22.1	54.7	18.4	3.7	52.4	56.8
Thailand	658	22.7	0.1	12.2	0.4	11.5	0.8	30.9	3.8	17.7	22.8	15.5	2.2	22.5	23.2
United States	965	10.9	0.1	6.4	1.8	14.6	0.3	52.5	1.4	12.1	11.0	6.4	5.7	10.7	11.3
INTERNATIONAL AVG	.	30.6	0.6	6.4	0.9	17.3	1.2	17.8	1.1	24.2	31.2	18.7	5.5	29.1	33.2

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