

Item: A06 KEY: B  
 Shown three objects floating in water, which weighs the most? (Physical Science)  
 Difficulty: 374

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	2.4	83.3	8.8	3.9	1.7	83.3	0.0	0.8	0.9	84.2	82.3
Austria	2525	1.4	81.2	10.7	4.5	2.2	81.2	0.2	0.6	1.4	80.8	81.9
Canada	7579	1.9	83.6	9.9	2.7	1.9	83.6	0.3	0.7	0.9	83.3	84.7
Cyprus	3305	2.2	76.2	12.9	5.0	3.7	76.2	0.4	0.9	2.4	74.5	78.2
Czech Republic	3252	1.8	80.3	9.6	5.4	2.9	80.3	0.8	0.7	1.3	79.2	81.5
England	3037	1.4	83.1	9.9	3.8	1.7	83.1	0.0	0.7	1.0	83.4	82.8
Greece	2955	1.8	80.9	8.7	4.2	4.4	80.9	0.7	1.1	2.6	78.6	83.2
Hong Kong	4395	1.9	83.2	9.9	4.4	0.6	83.2	0.2	0.0	0.4	82.0	84.1
Hungary	3038	1.7	79.2	7.7	6.4	5.0	79.2	0.0	2.5	2.5	77.7	81.3
Iceland	1695	3.0	76.3	8.3	4.5	7.9	76.3	0.2	3.0	4.7	75.9	76.6
Iran, Islamic Rep.	3360	5.4	63.7	12.8	8.8	9.3	63.7	1.2	1.6	6.6	62.3	65.3
Ireland	2885	1.8	80.5	10.5	5.3	1.8	80.5	0.7	0.4	0.7	80.1	80.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	0.6	94.8	2.7	1.7	0.3	94.8	0.0	0.2	0.1	94.9	94.7
Korea	2777	0.8	92.7	5.9	0.5	0.1	92.7	0.0	0.0	0.1	92.3	93.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	2.9	78.4	7.7	7.9	3.1	78.4	0.0	0.2	2.9	79.7	77.2
Netherlands	2789	1.0	88.4	7.2	2.8	0.6	88.4	0.6	0.0	0.0	88.5	88.4
New Zealand	2499	2.7	78.7	11.5	4.0	3.0	78.7	0.0	1.4	1.6	79.9	77.5
Norway	2210	0.9	81.8	7.3	2.7	7.3	81.8	0.3	4.1	3.0	80.5	83.0
Portugal	2648	2.4	70.0	10.2	7.6	9.7	70.0	0.0	4.8	4.9	67.5	72.5
Scotland	3129	1.5	80.7	12.6	3.6	1.6	80.7	0.1	0.5	1.0	80.2	81.3
Singapore	7029	2.1	83.6	11.5	2.3	0.5	83.6	0.0	0.0	0.5	83.6	83.6
Slovenia	2521	1.5	84.9	8.4	3.9	1.3	84.9	0.2	0.1	1.0	85.2	84.6
Thailand	2870	2.8	82.9	6.3	7.0	1.0	82.9	0.0	0.3	0.7	83.3	82.5
United States	3811	1.7	85.2	8.4	2.7	2.0	85.2	0.1	0.1	1.8	84.4	85.9
INTERNATIONAL AVG	.	2.0	81.4	9.2	4.4	3.1	81.4	0.2	1.0	1.8	80.9	82.0

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

Item: A07 KEY: A  
 Which plant is not usually grown for food? (Environment and other content)  
 Difficulty: 385

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	80.9	6.7	3.7	6.1	2.6	80.9	0.0	0.9	1.7	84.0	77.6
Austria	2524	86.7	4.5	2.0	4.5	2.2	86.7	0.3	0.7	1.2	88.9	84.9
Canada	7579	75.4	8.5	4.1	9.2	2.8	75.4	0.3	0.8	1.7	75.8	74.5
Cyprus	3306	73.3	7.3	4.9	9.5	5.1	73.3	1.3	1.5	2.2	74.2	72.4
Czech Republic	3252	85.7	3.4	2.4	4.7	3.8	85.7	1.7	0.9	1.2	86.8	84.4
England	3037	79.6	7.3	4.1	6.8	2.2	79.6	0.0	0.8	1.4	82.8	76.4
Greece	2955	74.8	8.7	4.3	6.1	6.1	74.8	2.3	1.2	2.7	76.5	73.2
Hong Kong	4395	72.1	12.7	5.6	7.3	2.3	72.1	1.3	0.0	1.0	72.4	72.0
Hungary	3038	84.2	2.9	2.9	3.2	6.7	84.2	0.0	3.0	3.7	84.6	84.4
Iceland	1695	73.4	4.0	4.9	10.4	7.3	73.4	0.2	3.9	3.3	74.1	72.6
Iran, Islamic Rep.	3360	65.7	8.8	7.0	9.9	8.7	65.7	3.5	2.0	3.1	67.4	63.8
Ireland	2885	78.7	7.5	5.1	7.2	1.4	78.7	0.4	0.5	0.6	81.8	76.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	74.4	8.1	5.3	11.8	0.4	74.4	0.1	0.2	0.2	76.6	72.2
Korea	2777	87.9	2.4	3.6	6.0	0.1	87.9	0.0	0.0	0.1	88.2	87.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	85.9	5.1	3.0	3.5	2.5	85.9	0.0	0.2	2.2	86.6	85.1
Netherlands	2789	83.4	5.6	3.2	6.8	0.9	83.4	0.9	0.0	0.0	83.9	83.1
New Zealand	2499	75.6	8.5	3.6	9.1	3.2	75.6	0.0	1.6	1.6	79.8	71.2
Norway	2210	74.5	5.2	5.4	6.5	8.4	74.5	0.7	4.6	3.0	75.1	74.1
Portugal	2648	68.6	7.3	4.7	8.4	11.0	68.6	0.0	5.8	5.2	68.0	69.2
Scotland	3129	78.6	6.7	4.9	7.4	2.4	78.6	0.1	0.6	1.6	80.4	76.7
Singapore	7030	76.2	4.9	4.8	13.5	0.6	76.2	0.0	0.0	0.6	79.2	73.4
Slovenia	2521	71.7	10.3	4.6	9.6	3.8	71.7	1.5	0.3	2.0	74.1	69.4
Thailand	2870	85.2	4.5	4.5	4.9	0.9	85.2	0.0	0.3	0.6	87.8	82.5
United States	3811	81.5	6.6	3.0	6.7	2.2	81.5	0.0	0.1	2.0	83.3	79.8
INTERNATIONAL AVG	.	78.1	6.6	4.2	7.5	3.7	78.1	0.6	1.3	1.8	79.7	76.5

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

Item: A08 KEY: A  
 What covers most of the Earth's surface? (Earth Science)  
 Difficulty: 514

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	66.6	5.4	6.3	19.5	2.2	66.6	0.0	1.1	1.1	61.9	71.4
Austria	2524	59.8	4.3	7.7	25.3	2.9	59.8	0.4	0.7	1.8	54.8	64.7
Canada	7579	65.9	6.3	4.6	21.5	1.7	65.9	0.1	0.8	0.8	61.9	70.4
Cyprus	3306	46.1	6.9	16.5	25.5	5.0	46.1	0.7	1.8	2.5	46.8	45.1
Czech Republic	3252	41.2	4.0	30.1	20.6	4.1	41.2	0.9	1.1	2.1	38.3	44.2
England	3037	66.6	4.8	5.5	21.3	1.8	66.6	0.0	0.9	0.9	63.4	69.9
Greece	2955	48.9	4.1	7.6	34.7	4.8	48.9	0.7	1.4	2.7	45.3	52.3
Hong Kong	4379	57.0	26.1	2.9	13.2	0.8	57.0	0.3	0.0	0.5	48.4	63.9
Hungary	3038	51.1	3.6	6.0	33.5	5.7	51.1	0.0	3.4	2.4	44.9	57.6
Iceland	1695	55.5	5.8	13.5	18.0	7.2	55.5	0.0	4.4	2.8	52.5	58.5
Iran, Islamic Rep.	3360	25.4	13.0	14.2	37.4	10.0	25.4	0.7	2.2	7.1	22.4	28.8
Ireland	2885	68.2	5.3	6.4	18.7	1.3	68.2	0.2	0.6	0.6	64.8	71.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	53.5	20.7	6.1	19.2	0.5	53.5	0.0	0.2	0.2	50.7	56.2
Korea	2777	51.1	16.6	12.8	19.3	0.2	51.1	0.0	0.0	0.2	45.1	56.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	51.7	2.7	13.0	29.8	2.9	51.7	0.0	0.2	2.6	49.7	53.7
Netherlands	2789	35.5	5.5	30.5	27.6	0.9	35.5	0.9	0.0	0.0	32.4	38.7
New Zealand	2499	59.4	5.1	12.1	20.1	3.3	59.4	0.0	1.9	1.4	55.5	63.5
Norway	2210	58.1	9.3	7.5	15.3	9.8	58.1	0.1	5.0	4.6	55.7	61.0
Portugal	2648	43.6	10.5	12.6	21.3	12.1	43.6	0.0	6.6	5.5	40.9	46.1
Scotland	3129	64.3	4.9	5.8	23.1	1.9	64.3	0.1	0.8	1.0	59.8	68.7
Singapore	7030	74.9	7.7	4.7	12.1	0.7	74.9	0.0	0.0	0.6	72.7	77.0
Slovenia	2521	56.0	4.4	6.9	30.9	1.7	56.0	0.3	0.4	0.9	52.2	59.6
Thailand	2870	35.5	13.8	9.6	40.2	0.9	35.5	0.0	0.3	0.6	36.0	34.9
United States	3811	72.9	5.9	4.4	15.1	1.8	72.9	0.0	0.1	1.6	71.2	74.4
INTERNATIONAL AVG	.	54.5	8.2	10.3	23.5	3.5	54.5	0.2	1.4	1.9	51.1	57.8

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

Item: A09 KEY: D  
 What happens if the body takes in more food than it uses? (Life Science)  
 Difficulty: 492

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	9.6	5.6	14.5	67.5	2.7	67.5	0.0	1.3	1.4	69.0	65.9
Austria	2524	6.2	5.0	12.3	72.5	4.0	72.5	0.2	0.8	2.9	76.6	68.8
Canada	7579	11.4	7.5	14.4	63.6	3.2	63.6	0.0	0.9	2.2	63.9	62.6
Cyprus	3306	15.7	30.7	13.8	32.3	7.5	32.3	0.3	1.9	5.3	31.4	33.3
Czech Republic	3252	6.8	11.1	7.2	68.6	6.3	68.6	0.3	1.4	4.7	68.9	68.3
England	3037	10.0	6.8	12.0	68.1	3.1	68.1	0.0	1.0	2.1	68.6	67.7
Greece	2955	11.8	5.5	17.2	55.3	10.2	55.3	0.7	1.5	7.9	54.5	56.0
Hong Kong	4378	9.1	16.6	15.9	56.5	1.9	56.5	0.3	0.0	1.6	56.5	56.6
Hungary	3038	13.5	5.2	12.2	60.3	8.8	60.3	0.0	3.7	5.1	60.8	60.0
Iceland	1695	14.0	10.0	18.2	48.3	9.5	48.3	0.0	5.0	4.5	47.8	48.8
Iran, Islamic Rep.	3360	13.1	14.1	15.6	44.7	12.6	44.7	1.3	2.8	8.5	45.0	44.3
Ireland	2885	9.6	6.3	12.1	69.5	2.5	69.5	0.3	0.7	1.6	71.5	67.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	8.5	9.4	17.8	63.3	1.0	63.3	0.0	0.3	0.7	63.6	63.1
Korea	2777	13.8	8.2	11.7	66.0	0.3	66.0	0.0	0.0	0.3	67.3	64.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	13.1	11.8	14.1	56.1	4.9	56.1	0.0	0.4	4.5	58.3	53.9
Netherlands	2789	9.1	10.3	10.6	69.0	1.0	69.0	1.0	0.0	0.0	70.4	67.7
New Zealand	2499	9.4	8.1	16.8	61.4	4.3	61.4	0.0	2.1	2.2	65.8	56.6
Norway	2210	10.6	7.4	12.1	58.8	11.1	58.8	0.0	6.0	5.0	59.1	58.9
Portugal	2648	11.2	7.2	15.1	50.5	16.0	50.5	0.0	7.5	8.5	50.4	50.6
Scotland	3129	9.8	7.2	11.6	68.9	2.5	68.9	0.1	0.8	1.7	68.2	69.6
Singapore	7030	10.2	6.5	19.4	63.1	0.8	63.1	0.0	0.1	0.7	62.3	63.8
Slovenia	2521	9.7	10.2	14.5	62.1	3.5	62.1	0.1	0.5	2.9	63.4	60.9
Thailand	2870	12.2	6.5	18.1	62.1	1.1	62.1	0.0	0.3	0.8	65.6	58.5
United States	3811	10.1	5.1	17.9	64.2	2.7	64.2	0.1	0.1	2.5	63.2	65.1
INTERNATIONAL AVG	.	10.8	9.3	14.4	60.5	5.1	60.5	0.2	1.6	3.2	61.3	59.7

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

May 14, 1998 5

Item: A10 KEY: D  
 The fossils of dinosaurs can be found where? (Earth Science)  
 Difficulty: 445

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4728	6.4	1.7	2.9	86.1	2.9	86.1	0.0	1.3	1.6	87.1	85.0
Austria	2524	13.6	2.3	4.3	75.8	4.1	75.8	0.5	0.8	2.7	73.1	78.6
Canada	7579	12.2	2.7	2.5	79.1	3.4	79.1	0.7	1.0	1.8	77.3	80.4
Cyprus	3305	15.0	14.2	9.3	53.9	7.7	53.9	0.5	2.5	4.7	49.6	58.2
Czech Republic	3252	13.1	2.5	3.6	75.5	5.3	75.5	1.0	1.9	2.3	71.6	79.6
England	3037	10.7	2.9	3.8	79.5	3.1	79.5	0.0	1.1	2.0	78.9	80.0
Greece	2953	21.3	6.0	3.5	61.2	8.0	61.2	0.9	1.7	5.4	58.6	63.7
Hong Kong	4378	8.3	1.6	3.3	85.6	1.2	85.6	0.6	0.0	0.6	83.4	87.6
Hungary	3038	16.8	1.9	17.9	52.6	10.7	52.6	0.0	4.4	6.3	51.8	53.6
Iceland	1692	15.9	3.4	4.8	65.7	10.2	65.7	0.0	5.5	4.8	60.4	71.1
Iran, Islamic Rep.	3359	42.4	8.3	13.2	23.3	12.8	23.3	1.1	3.4	8.3	21.6	25.4
Ireland	2885	15.2	3.2	5.2	73.7	2.7	73.7	0.3	0.8	1.5	71.4	75.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	4304	14.9	1.4	3.3	79.6	0.8	79.6	0.0	0.3	0.5	76.1	82.9
Korea	2777	3.6	1.5	1.5	93.4	0.1	93.4	0.0	0.0	0.1	92.7	94.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2054	27.0	2.0	3.5	63.3	4.1	63.3	0.0	0.8	3.3	59.2	67.6
Netherlands	2789	17.9	1.6	2.5	76.3	1.7	76.3	1.6	0.0	0.0	76.2	76.2
New Zealand	2499	11.0	2.4	5.6	75.7	5.3	75.7	0.0	2.4	2.8	75.4	76.0
Norway	2210	27.0	7.2	8.8	43.3	13.7	43.3	0.2	6.6	6.8	41.1	46.1
Portugal	2647	17.1	5.5	5.3	56.1	16.1	56.1	0.0	8.6	7.5	53.6	58.5
Scotland	3129	11.6	3.4	5.2	77.0	2.7	77.0	0.1	0.9	1.7	75.6	78.5
Singapore	7021	12.3	3.9	4.8	78.0	1.0	78.0	0.0	0.1	0.9	74.7	81.0
Slovenia	2521	17.9	2.0	2.2	74.2	3.6	74.2	0.7	0.6	2.4	70.3	77.9
Thailand	2870	24.6	8.7	10.1	55.2	1.5	55.2	0.0	0.3	1.2	54.0	56.5
United States	3811	7.4	2.6	2.7	84.4	3.0	84.4	0.1	0.2	2.7	84.8	84.0
INTERNATIONAL AVG	.	16.0	3.9	5.4	69.5	5.2	69.5	0.3	1.9	3.0	67.4	71.6

DIFF = Item Difficulty  
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Item: B01 KEY: C  
 A strong magnet will separate which of the following mixtures? (Physical Science)  
 Difficulty: 466

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	12.7	8.4	63.4	12.2	3.3	63.4	0.0	0.6	2.7	59.0	67.9
Austria	1257	9.3	3.7	73.2	9.5	4.2	73.2	0.5	0.2	3.6	70.1	76.6
Canada	3800	12.4	9.1	57.1	19.1	2.4	57.1	0.4	0.2	1.8	54.8	59.0
Cyprus	1697	7.1	6.1	72.3	6.5	8.0	72.3	0.7	0.7	6.6	69.9	74.7
Czech Republic	1612	9.6	4.3	64.2	13.5	8.5	64.2	0.7	0.4	7.4	60.9	67.5
England	1522	11.3	7.0	69.0	9.4	3.2	69.0	0.0	0.3	2.9	68.9	69.2
Greece	1475	12.6	5.5	62.7	6.5	12.8	62.7	0.8	0.7	11.2	56.3	68.8
Hong Kong	2214	11.6	8.4	64.6	11.6	3.9	64.6	0.9	0.0	3.0	63.3	65.8
Hungary	1526	6.4	9.7	67.3	9.1	7.5	67.3	0.0	1.2	6.3	66.3	68.5
Iceland	855	14.9	8.2	60.1	9.0	7.8	60.1	0.0	2.5	5.2	55.1	65.5
Iran, Islamic Rep.	1680	6.9	8.8	56.7	11.3	16.3	56.7	1.6	1.0	13.6	55.3	58.3
Ireland	1444	11.8	8.7	62.4	14.3	2.7	62.4	0.8	0.2	1.7	60.3	64.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	3.7	3.3	82.6	8.8	1.6	82.6	0.8	0.3	0.5	82.4	82.8
Korea	1383	5.8	3.7	80.9	9.2	0.4	80.9	0.0	0.0	0.4	81.5	80.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	6.0	6.8	63.8	14.6	8.8	63.8	0.0	0.3	8.5	63.7	63.9
Netherlands	1395	9.1	4.6	76.0	9.0	1.3	76.0	1.3	0.0	0.0	71.0	80.9
New Zealand	1247	12.9	8.8	56.5	18.3	3.5	56.5	0.0	1.3	2.2	56.2	56.8
Norway	1105	13.5	6.7	52.4	16.2	11.2	52.4	0.5	2.3	8.4	47.1	58.0
Portugal	1322	9.6	6.8	64.0	7.8	11.8	64.0	0.0	2.5	9.2	58.8	69.0
Scotland	1564	12.8	7.4	65.0	11.1	3.7	65.0	0.3	0.3	3.1	60.4	69.2
Singapore	3504	5.8	6.7	78.6	7.4	1.5	78.6	0.0	0.0	1.5	77.1	79.9
Slovenia	1269	9.1	7.1	64.8	12.4	6.6	64.8	0.2	0.4	6.1	57.8	71.3
Thailand	1380	7.8	11.3	62.8	14.3	3.7	62.8	0.0	0.2	3.6	66.2	59.2
United States	1899	10.3	9.2	63.7	14.9	1.8	63.7	0.1	0.0	1.6	61.8	65.5
INTERNATIONAL AVG	.	9.7	7.1	66.0	11.5	5.7	66.0	0.4	0.7	4.6	63.5	68.4

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

Item: B02 KEY: A  
 Shown diagram, where is the saltiest water found? (Earth Science)  
 Difficulty: 458

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	67.9	11.6	11.3	6.2	3.0	67.9	0.0	0.6	2.4	68.5	67.3
Austria	1258	87.0	5.5	3.1	2.1	2.3	87.0	0.3	0.3	1.8	85.5	88.6
Canada	3800	70.8	9.4	12.9	5.3	1.7	70.8	0.2	0.3	1.2	70.8	70.6
Cyprus	1697	80.0	6.8	5.3	3.8	4.2	80.0	0.3	1.3	2.6	80.2	79.7
Czech Republic	1612	80.7	9.8	4.8	2.8	1.9	80.7	0.2	0.6	1.1	78.4	83.1
England	1522	66.6	10.5	15.7	5.3	2.0	66.6	0.0	0.3	1.7	65.9	67.2
Greece	1476	55.2	13.1	12.2	11.1	8.4	55.2	1.3	0.9	6.1	53.8	56.6
Hong Kong	2214	67.4	12.3	12.3	6.6	1.4	67.4	0.6	0.0	0.8	62.1	71.6
Hungary	1526	77.6	7.8	6.9	3.3	4.4	77.6	0.0	1.4	3.1	76.3	78.1
Iceland	855	66.2	9.8	12.3	5.8	5.9	66.2	0.1	3.1	2.7	63.7	68.8
Iran, Islamic Rep.	1680	30.4	16.2	30.0	10.6	12.8	30.4	1.4	1.6	9.7	26.7	34.9
Ireland	1444	59.0	14.6	18.6	6.6	1.3	59.0	0.6	0.2	0.4	58.6	59.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	89.3	3.3	4.7	1.9	0.7	89.3	0.1	0.3	0.3	90.4	88.4
Korea	1383	92.1	2.6	4.0	1.1	0.1	92.1	0.0	0.0	0.1	89.7	94.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	71.2	11.2	10.0	4.0	3.5	71.2	0.0	0.4	3.2	72.0	70.4
Netherlands	1395	68.6	11.8	15.0	3.8	0.8	68.6	0.8	0.0	0.0	63.0	74.8
New Zealand	1247	62.4	12.5	14.8	6.9	3.4	62.4	0.0	1.3	2.0	62.8	62.1
Norway	1105	69.7	10.8	8.6	3.8	7.1	69.7	0.5	3.2	3.4	68.7	70.6
Portugal	1322	60.7	9.5	13.0	7.6	9.2	60.7	0.0	3.6	5.6	56.6	64.6
Scotland	1564	64.1	10.5	16.2	6.3	3.0	64.1	0.3	0.4	2.3	62.6	65.3
Singapore	3504	42.5	20.6	28.7	7.3	0.9	42.5	0.0	0.0	0.9	39.0	45.6
Slovenia	1269	77.5	12.3	5.8	2.2	2.1	77.5	0.1	0.5	1.5	73.3	81.4
Thailand	1380	60.4	17.0	13.9	7.6	1.2	60.4	0.0	0.3	0.8	58.3	62.5
United States	1899	71.8	10.2	12.9	3.8	1.3	71.8	0.0	0.0	1.2	73.2	70.5
INTERNATIONAL AVG	.	68.3	10.8	12.2	5.2	3.4	68.3	0.3	0.9	2.3	66.7	69.9

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

Item: B03 KEY: D  
 If you throw each one of these things away, which will decay fastest? (Life Science)  
 Difficulty: 480

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	16.3	6.4	8.5	67.0	1.9	67.0	0.0	0.6	1.3	70.3	63.6
Austria	1258	3.7	7.6	3.0	83.3	2.3	83.3	0.2	0.3	1.8	83.2	83.3
Canada	3800	11.3	8.0	7.9	71.4	1.3	71.4	0.1	0.6	0.6	72.7	69.9
Cyprus	1697	25.3	17.0	13.8	38.6	5.3	38.6	0.6	1.5	3.3	41.2	36.3
Czech Republic	1612	13.4	3.8	5.5	74.8	2.4	74.8	0.5	0.6	1.3	70.9	78.9
England	1522	14.1	8.5	7.7	67.5	2.2	67.5	0.0	0.3	1.9	68.0	66.9
Greece	1476	17.1	3.0	4.3	71.4	4.3	71.4	0.7	1.0	2.6	73.0	69.8
Hong Kong	2215	24.3	12.7	8.9	52.7	1.4	52.7	0.4	0.0	1.0	49.1	55.6
Hungary	1526	44.4	1.8	6.2	44.3	3.3	44.3	0.0	1.5	1.8	42.5	45.5
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Iran, Islamic Rep.	1680	21.5	12.6	12.4	44.0	9.6	44.0	1.3	1.7	6.5	45.8	41.9
Ireland	1444	23.7	8.9	12.4	53.3	1.7	53.3	0.4	0.2	1.0	54.4	52.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	1.4	6.0	1.6	90.5	0.5	90.5	0.0	0.3	0.3	91.1	89.9
Korea	1383	3.3	5.0	6.5	85.1	0.1	85.1	0.0	0.0	0.1	84.0	86.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	19.5	6.9	7.6	63.2	2.8	63.2	0.0	0.4	2.5	64.4	61.9
Netherlands	1395	14.7	4.3	4.0	75.9	1.0	75.9	1.0	0.0	0.0	79.4	71.9
New Zealand	1247	15.8	8.2	7.5	65.5	2.9	65.5	0.0	1.4	1.5	69.7	61.5
Norway	1105	4.1	3.6	3.0	83.1	6.1	83.1	0.1	3.2	2.8	81.4	85.5
Portugal	1322	7.8	5.8	9.1	69.4	7.8	69.4	0.0	3.7	4.1	71.4	67.6
Scotland	1564	22.1	8.4	9.2	58.0	2.3	58.0	0.3	0.4	1.6	60.1	56.0
Singapore	3504	33.8	16.1	10.2	39.1	0.8	39.1	0.0	0.0	0.8	37.4	40.6
Slovenia	1269	55.1	3.7	2.0	37.2	1.9	37.2	0.0	0.5	1.4	37.0	37.4
Thailand	1380	11.7	13.1	19.6	54.2	1.5	54.2	0.0	0.3	1.2	55.8	52.4
United States	1899	11.7	8.6	11.9	66.5	1.2	66.5	0.0	0.0	1.1	65.2	67.8
INTERNATIONAL AVG	.	18.1	7.8	8.0	63.3	2.8	63.3	0.2	0.8	1.8	63.8	62.7

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



Item: B04 KEY: A  
 Where do humans interpret senses? (Life Science)  
 Difficulty: 538

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2369	63.2	7.3	13.1	13.8	2.6	63.2	0.0	0.7	1.9	62.2	64.3
Austria	1258	60.4	4.2	16.9	15.3	3.3	60.4	0.3	0.3	2.6	59.2	61.5
Canada	3800	61.0	9.2	12.6	15.3	1.9	61.0	0.1	0.7	1.1	61.3	60.5
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	1612	45.4	4.2	42.1	4.7	3.5	45.4	0.7	0.8	2.0	42.1	48.9
England	1522	62.4	9.6	12.0	13.3	2.6	62.4	0.0	0.4	2.2	63.6	61.3
Greece	1476	29.5	5.9	45.0	10.6	9.0	29.5	0.7	1.1	7.2	27.6	31.3
Hong Kong	2215	76.4	3.6	14.7	4.4	0.9	76.4	0.5	0.0	0.4	75.4	77.4
Hungary	1526	60.4	4.7	14.5	14.5	5.9	60.4	0.0	1.8	4.1	60.0	61.5
Iceland	855	56.5	10.6	15.3	11.5	6.1	56.5	0.1	3.4	2.6	58.3	54.6
Iran, Islamic Rep.	1680	37.7	8.8	19.8	20.0	13.7	37.7	1.6	1.8	10.2	37.7	37.7
Ireland	1444	55.9	13.2	15.6	13.0	2.3	55.9	0.3	0.2	1.8	56.9	55.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2157	38.7	8.0	27.5	25.0	0.7	38.7	0.0	0.3	0.4	38.9	38.6
Korea	1383	40.0	1.6	48.1	10.2	0.1	40.0	0.0	0.0	0.1	37.3	42.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1033	49.7	3.3	22.9	19.6	4.5	49.7	0.0	0.4	4.1	50.3	49.1
Netherlands	1395	55.5	3.1	27.4	13.0	1.1	55.5	1.1	0.0	0.0	53.6	57.7
New Zealand	1247	59.1	10.3	11.5	15.3	3.7	59.1	0.0	1.4	2.3	61.0	57.3
Norway	1105	64.5	6.4	6.3	14.2	8.6	64.5	0.0	4.1	4.5	61.8	68.0
Portugal	1322	43.0	14.3	10.2	17.0	15.5	43.0	0.0	4.4	11.1	39.0	46.7
Scotland	1564	60.2	10.0	12.7	13.6	3.4	60.2	0.2	0.4	2.7	61.4	58.9
Singapore	3504	44.1	22.0	21.1	11.7	1.1	44.1	0.0	0.0	1.1	40.9	46.9
Slovenia	1269	45.2	1.5	47.8	3.7	1.7	45.2	0.0	0.5	1.2	39.8	50.2
Thailand	.	.	.	.	.	.	.	.	.	.	.	.
United States	1899	63.2	11.3	12.6	10.6	2.2	63.2	0.0	0.0	2.1	63.8	62.7
INTERNATIONAL AVG	.	53.3	7.9	21.3	13.2	4.3	53.3	0.3	1.0	3.0	52.4	54.2

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

Item: C05 KEY: D  
 Same brick is put on a scale in three different ways. What will the scale show? (Physical Science)  
 Difficulty: 484

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	13.4	8.8	10.2	65.0	2.6	65.0	0.0	0.8	1.8	66.9	63.1
Austria	944	7.3	6.9	8.6	73.2	4.0	73.2	0.6	1.1	2.3	73.2	73.2
Canada	2832	10.9	11.3	14.9	58.7	4.2	58.7	0.4	0.9	2.8	57.8	59.0
Cyprus	1169	10.5	13.3	12.5	57.1	6.6	57.1	0.4	2.2	3.9	57.2	57.0
Czech Republic	1213	7.1	4.4	11.7	69.9	6.9	69.9	1.3	1.8	3.8	69.9	70.0
England	1145	10.6	10.6	14.3	62.6	1.9	62.6	0.0	0.6	1.3	64.5	60.7
Greece	1115	7.8	12.4	14.4	52.6	12.8	52.6	0.9	1.8	10.0	54.1	51.1
Hong Kong	1656	9.0	11.5	10.1	67.8	1.6	67.8	0.3	0.0	1.3	69.1	66.9
Hungary	1142	7.0	11.8	10.0	61.7	9.5	61.7	0.0	4.6	4.9	64.5	59.5
Iceland	632	12.0	17.2	14.8	48.3	7.7	48.3	0.1	4.1	3.5	51.9	44.5
Iran, Islamic Rep.	1258	11.0	8.2	28.9	36.4	15.5	36.4	2.7	3.7	9.0	32.7	41.0
Ireland	1072	6.2	10.9	12.8	67.2	2.9	67.2	0.3	0.6	2.0	70.0	64.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	10.2	19.1	5.2	65.0	0.6	65.0	0.0	0.4	0.2	67.7	62.3
Korea	1039	15.6	11.3	8.4	64.4	0.2	64.4	0.0	0.0	0.2	65.0	63.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	6.7	6.9	9.5	69.7	7.3	69.7	0.0	0.9	6.4	70.1	69.2
Netherlands	1030	9.7	9.0	10.7	69.1	1.5	69.1	1.3	0.0	0.1	67.7	70.1
New Zealand	943	12.2	11.8	14.8	56.6	4.6	56.6	0.0	2.1	2.6	61.1	51.9
Norway	837	13.6	15.4	13.5	47.3	10.2	47.3	0.6	5.4	4.2	45.5	49.3
Portugal	991	6.2	7.4	15.2	57.3	14.0	57.3	0.0	7.4	6.6	57.0	57.6
Scotland	1155	8.5	14.3	9.7	64.6	2.9	64.6	0.3	0.8	1.8	65.6	63.5
Singapore	2631	13.0	11.0	9.2	65.6	1.2	65.6	0.0	0.2	1.0	69.5	62.2
Slovenia	953	4.3	4.3	5.5	81.6	4.3	81.6	0.1	1.0	3.2	83.8	79.5
Thailand	1143	12.2	16.6	12.6	57.1	1.5	57.1	0.0	0.1	1.3	59.4	55.0
United States	1412	16.6	9.7	11.7	60.6	1.4	60.6	0.0	0.0	1.3	58.4	62.5
INTERNATIONAL AVG	.	10.1	11.0	12.0	61.6	5.2	61.6	0.4	1.7	3.2	62.6	60.7

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

Item: C06 KEY: D  
 Which animal eats only plants? (Life Science)  
 Difficulty: 300

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	0.5	1.1	6.8	89.1	2.5	89.1	0.0	0.9	1.5	89.7	88.6
Austria	944	0.3	1.3	5.9	90.9	1.6	90.9	0.0	1.1	0.5	90.9	90.9
Canada	2832	2.6	1.4	14.8	77.4	3.8	77.4	0.9	1.0	2.0	76.9	78.8
Cyprus	1169	0.9	1.4	2.8	90.4	4.5	90.4	1.0	2.5	1.0	88.6	92.6
Czech Republic	1213	0.0	0.5	0.9	95.5	3.0	95.5	0.3	2.2	0.5	95.4	95.6
England	1145	1.1	1.0	11.0	85.4	1.6	85.4	0.0	0.7	0.9	82.7	88.2
Greece	1115	0.2	1.1	3.4	91.3	4.1	91.3	0.3	2.0	1.9	89.7	92.8
Hong Kong	1656	0.7	0.2	4.9	92.8	1.5	92.8	0.3	0.0	1.1	92.9	92.7
Hungary	1142	0.5	0.6	2.0	89.0	7.8	89.0	0.0	5.0	2.9	89.0	90.1
Iceland	632	1.9	2.0	12.6	76.7	6.9	76.7	0.0	4.5	2.4	77.4	75.9
Iran, Islamic Rep.	1258	2.0	3.2	6.9	76.0	11.9	76.0	2.0	4.2	5.7	73.9	78.6
Ireland	1072	0.5	1.0	9.2	87.4	1.9	87.4	0.3	0.7	0.9	84.3	90.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	2.8	1.9	18.7	75.6	1.0	75.6	0.2	0.6	0.3	73.5	77.6
Korea	1039	0.7	0.2	1.1	98.0	0.0	98.0	0.0	0.0	0.0	97.7	98.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	2.7	1.0	5.4	88.3	2.6	88.3	0.0	1.2	1.3	87.5	89.1
Netherlands	1030	0.1	0.4	8.1	89.7	1.7	89.7	1.6	0.0	0.1	85.6	94.3
New Zealand	943	0.6	1.8	8.8	84.7	4.0	84.7	0.0	2.8	1.2	86.8	82.6
Norway	837	0.4	0.3	6.3	84.5	8.5	84.5	0.2	6.1	2.2	79.0	89.2
Portugal	992	0.8	1.7	5.5	81.3	10.7	81.3	0.0	8.2	2.5	80.3	82.3
Scotland	1155	1.3	1.4	9.5	85.8	2.1	85.8	0.3	0.8	1.0	84.1	87.3
Singapore	2631	1.3	1.6	5.6	90.8	0.7	90.8	0.0	0.2	0.5	89.6	92.0
Slovenia	953	0.5	0.2	1.6	94.8	2.9	94.8	0.4	1.4	1.1	94.6	95.0
Thailand	1143	2.3	2.4	5.2	88.7	1.4	88.7	0.0	0.3	1.0	87.7	89.6
United States	1412	0.6	1.0	8.2	88.3	1.9	88.3	0.0	0.1	1.8	87.7	88.8
INTERNATIONAL AVG	.	1.0	1.2	6.9	87.2	3.7	87.2	0.3	1.9	1.4	86.1	88.4

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

Item: C07 KEY: B  
 Which of the following is an example of the use of a renewable source? (Environment and other content)  
 Difficulty: 607

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	20.2	42.2	16.4	14.7	6.5	42.2	0.0	0.9	5.6	40.7	43.8
Austria	944	16.0	50.3	13.6	12.6	7.5	50.3	0.2	1.1	6.2	51.9	48.8
Canada	2832	21.7	40.5	20.3	12.7	4.8	40.5	0.2	1.1	3.5	40.2	40.5
Cyprus	1169	17.8	36.8	18.6	13.8	13.0	36.8	0.3	2.5	10.2	35.1	38.5
Czech Republic	1213	21.4	39.6	11.8	15.7	11.5	39.6	0.7	2.2	8.5	39.1	40.1
England	1145	29.1	36.0	16.2	13.7	5.0	36.0	0.0	0.7	4.2	32.7	39.5
Greece	1115	18.1	37.6	13.5	15.4	15.4	37.6	0.5	2.2	12.7	38.1	37.1
Hong Kong	1654	24.5	34.2	24.9	12.5	3.9	34.2	0.9	0.0	3.0	31.0	36.7
Hungary	1142	27.5	24.1	18.8	16.3	13.3	24.1	0.0	5.3	8.0	21.0	27.9
Iceland	632	24.2	30.3	20.9	14.6	10.0	30.3	0.0	4.6	5.5	29.7	30.9
Iran, Islamic Rep.	1258	21.1	22.9	16.6	13.5	25.9	22.9	1.8	5.1	19.0	21.0	25.2
Ireland	1072	27.5	40.0	15.3	14.0	3.4	40.0	0.2	0.7	2.4	41.0	39.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	16.2	56.3	10.7	15.6	1.2	56.3	0.0	0.7	0.6	54.1	58.5
Korea	1039	21.1	37.5	25.1	16.4	0.0	37.5	0.0	0.0	0.0	34.7	40.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	22.9	36.8	16.6	12.3	11.4	36.8	0.0	1.9	9.6	35.1	38.6
Netherlands	1030	18.5	50.3	17.2	12.6	1.4	50.3	1.3	0.0	0.1	49.3	50.6
New Zealand	943	19.4	39.8	17.2	18.4	5.3	39.8	0.0	2.8	2.5	36.0	43.6
Norway	837	16.4	31.9	16.6	17.7	17.4	31.9	0.0	6.4	11.1	27.4	36.6
Portugal	992	13.7	40.8	14.3	9.9	21.3	40.8	0.0	8.4	12.8	39.9	41.7
Scotland	1155	28.5	36.5	17.8	13.9	3.4	36.5	0.0	0.8	2.5	34.6	37.7
Singapore	2631	20.0	27.7	30.7	19.5	2.2	27.7	0.0	0.2	2.0	25.0	30.1
Slovenia	953	29.6	31.8	15.0	15.7	7.9	31.8	0.3	1.6	6.1	29.7	33.8
Thailand	1143	12.1	47.6	20.2	17.6	2.6	47.6	0.0	0.4	2.2	50.2	45.2
United States	1412	27.7	39.4	19.2	11.3	2.4	39.4	0.1	0.1	2.3	37.9	40.8
INTERNATIONAL AVG	.	21.5	37.9	17.8	14.6	8.2	37.9	0.3	2.1	5.9	36.5	39.4

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

Item: C08 KEY: B  
 What gas in the air do we need in order to live? (Life Science)  
 Difficulty: 397

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	0.5	83.0	6.1	1.8	5.5	3.0	83.0	0.0	1.2	1.9	84.4	81.5
Austria	944	1.7	86.8	2.9	3.9	2.4	2.3	86.8	0.1	1.2	1.0	87.3	86.4
Canada	2832	1.7	76.9	6.5	3.0	8.3	3.6	76.9	0.3	1.3	2.0	74.9	78.3
Cyprus	1169	1.7	84.0	4.8	1.4	2.2	5.9	84.0	0.5	3.4	2.0	83.2	85.0
Czech Republic	1213	3.5	80.4	9.6	0.3	0.9	5.3	80.4	1.2	3.1	1.0	77.5	83.5
England	1145	1.7	82.3	5.4	1.6	6.9	2.0	82.3	0.0	0.9	1.1	80.3	84.4
Greece	1115	0.8	82.4	6.6	2.1	1.7	6.4	82.4	0.4	3.2	2.9	80.9	83.9
Hong Kong	1654	4.3	48.7	23.9	7.0	13.4	2.6	48.7	0.6	0.0	2.1	44.1	52.3
Hungary	1142	1.4	81.9	3.3	0.8	2.2	10.4	81.9	0.0	6.6	3.8	83.0	82.6
Iceland	632	3.2	79.6	3.2	2.3	3.0	8.8	79.6	0.0	5.2	3.6	81.0	78.2
Iran, Islamic Rep.	1258	6.2	40.7	13.1	4.1	20.1	15.7	40.7	1.4	6.5	7.8	38.1	43.9
Ireland	1072	3.5	75.0	7.0	2.6	9.2	2.6	75.0	0.0	1.2	1.4	73.7	76.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	2.6	67.1	18.7	3.0	6.7	1.8	67.1	0.0	0.7	1.1	66.0	68.3
Korea	1039	0.4	81.5	8.9	1.1	8.0	0.1	81.5	0.0	0.0	0.1	78.0	84.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	6.4	69.1	14.1	2.6	2.7	5.1	69.1	0.0	2.1	3.0	69.0	69.1
Netherlands	1030	1.5	92.6	1.6	0.8	2.0	1.4	92.6	1.3	0.0	0.1	93.1	92.1
New Zealand	943	2.1	73.1	8.2	1.9	9.7	5.0	73.1	0.0	3.0	2.0	73.4	72.7
Norway	837	5.9	66.6	3.2	4.0	8.2	12.1	66.6	0.0	7.6	4.5	64.1	69.2
Portugal	992	1.8	72.0	6.4	0.8	4.6	14.4	72.0	0.0	10.3	4.2	72.9	71.1
Scotland	1155	2.2	77.1	5.6	3.2	9.2	2.7	77.1	0.0	1.0	1.7	75.1	78.9
Singapore	2631	3.6	69.4	8.4	4.4	13.2	0.9	69.4	0.0	0.2	0.7	68.0	70.7
Slovenia	953	1.9	86.4	5.7	0.7	0.5	4.7	86.4	0.5	2.2	2.0	86.9	85.8
Thailand	1143	6.1	48.5	20.5	5.9	16.7	2.3	48.5	0.0	0.9	1.5	46.0	50.7
United States	1412	1.7	81.5	6.8	1.5	6.2	2.2	81.5	0.2	0.1	1.9	81.0	82.0
INTERNATIONAL AVG	.	2.8	74.4	8.4	2.5	6.8	5.1	74.4	0.3	2.6	2.2	73.4	75.5

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

Item: C09 KEY: E  
 Where are large amounts of metals like iron and aluminum found? (Earth Science)  
 Difficulty: 581

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1761	8.2	9.5	6.6	31.7	39.6	4.5	39.6	0.0	1.2	3.3	39.8	39.5
Austria	944	7.3	25.2	5.8	13.4	42.0	6.2	42.0	0.5	1.3	4.4	37.4	47.0
Canada	2832	7.0	11.6	9.3	29.1	37.8	5.1	37.8	0.4	1.3	3.4	33.3	41.4
Cyprus	1169	6.8	9.0	7.1	19.5	45.8	11.8	45.8	0.8	3.4	7.7	43.1	48.9
Czech Republic	1213	3.3	5.2	2.5	24.6	55.5	8.9	55.5	1.2	3.4	4.3	49.5	61.9
England	1145	7.5	12.0	7.3	27.4	42.7	3.1	42.7	0.0	0.9	2.1	42.1	43.3
Greece	1115	7.0	10.1	6.3	29.1	34.2	13.4	34.2	0.6	3.2	9.6	29.6	38.9
Hong Kong	1654	4.1	4.0	6.2	16.4	65.9	3.3	65.9	0.9	0.0	2.5	65.9	66.0
Hungary	1142	3.8	12.8	4.6	30.5	33.4	14.9	33.4	0.0	6.7	8.2	28.0	38.6
Iceland	632	12.4	16.5	8.2	21.4	29.9	11.6	29.9	0.2	6.0	5.5	27.7	32.2
Iran, Islamic Rep.	1258	9.5	9.3	10.7	20.0	33.3	17.2	33.3	1.5	6.8	8.9	29.7	37.6
Ireland	1072	10.7	9.2	6.7	29.2	40.1	4.0	40.1	0.3	1.2	2.5	37.9	42.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1613	3.2	3.1	4.7	20.9	65.8	2.3	65.8	0.0	0.8	1.4	66.2	65.3
Korea	1039	1.0	1.2	2.4	9.0	86.3	0.0	86.3	0.0	0.0	0.0	84.3	88.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	768	6.9	22.8	4.9	25.6	32.2	7.6	32.2	0.0	2.2	5.4	31.0	33.4
Netherlands	1030	6.7	13.3	8.5	25.2	43.6	2.8	43.6	2.7	0.0	0.1	38.8	49.7
New Zealand	943	7.6	14.0	7.6	28.2	35.8	6.8	35.8	0.0	3.2	3.6	32.1	39.4
Norway	837	9.4	13.6	7.2	21.9	34.3	13.8	34.3	0.1	7.7	5.9	29.0	39.4
Portugal	992	3.1	10.7	3.5	31.3	31.7	19.6	31.7	0.0	10.5	9.1	31.8	31.7
Scotland	1155	8.1	12.1	7.9	35.6	32.2	4.1	32.2	0.0	1.0	3.0	28.3	35.6
Singapore	2631	6.5	4.3	5.6	29.4	52.6	1.6	52.6	0.0	0.2	1.4	53.0	52.2
Slovenia	953	5.5	22.5	3.6	28.6	32.6	7.3	32.6	0.4	2.5	4.3	31.8	33.4
Thailand	1143	12.5	15.5	12.3	23.9	32.7	3.1	32.7	0.0	0.9	2.2	32.1	33.2
United States	1412	8.9	11.3	6.6	31.0	38.7	3.6	38.7	0.0	0.2	3.4	36.5	40.7
INTERNATIONAL AVG	.	7.0	11.6	6.5	25.1	42.4	7.4	42.4	0.4	2.7	4.3	40.0	45.0

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

Item: D01 KEY: A  
 Why are kettles and kitchen pans often made of copper? (Physical Science)  
 Difficulty: 532

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	60.1	12.8	10.7	12.7	3.7	60.1	0.0	0.3	3.4	61.0	59.1
Austria	947	56.4	11.9	16.4	11.1	4.2	56.4	0.5	0.6	3.2	56.5	56.8
Canada	2826	54.8	10.1	14.3	17.8	3.0	54.8	0.5	0.2	2.3	52.5	55.8
Cyprus	1220	28.7	26.0	23.0	13.8	8.5	28.7	2.3	0.7	5.5	30.9	26.7
Czech Republic	1219	48.6	15.1	17.0	11.9	7.4	48.6	0.6	1.4	5.4	47.9	49.2
England	1133	60.2	10.6	10.1	14.7	4.4	60.2	0.0	0.4	4.0	60.8	59.7
Greece	1096	48.2	14.1	19.9	8.8	8.9	48.2	0.8	1.0	7.2	45.9	50.2
Hong Kong	1639	57.5	7.5	15.9	14.0	5.0	57.5	0.9	0.1	4.1	57.2	57.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	630	58.7	12.3	8.6	14.8	5.6	58.7	0.2	2.6	2.8	60.8	56.4
Iran, Islamic Rep.	1265	28.6	18.8	18.7	17.9	16.1	28.6	1.8	1.5	12.8	27.3	30.0
Ireland	1089	47.1	16.3	14.9	18.6	3.1	47.1	0.7	0.5	1.9	50.5	43.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	73.2	10.4	10.3	5.7	0.5	73.2	0.0	0.1	0.4	76.2	70.3
Korea	1058	80.1	6.3	4.3	8.8	0.5	80.1	0.0	0.0	0.5	79.2	80.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	47.5	8.0	24.2	13.7	6.7	47.5	0.0	0.6	6.1	49.0	45.8
Netherlands	1047	38.7	12.3	24.3	23.5	1.2	38.7	1.2	0.0	0.1	36.1	41.3
New Zealand	949	54.1	13.6	13.7	16.4	2.1	54.1	0.0	0.1	2.0	53.9	54.3
Norway	828	39.1	16.5	18.9	15.5	9.9	39.1	0.1	2.0	7.7	38.2	39.8
Portugal	1003	34.5	9.7	17.8	21.9	16.1	34.5	0.0	3.4	12.6	32.6	36.5
Scotland	1177	56.4	11.7	12.1	17.8	2.0	56.4	0.2	0.4	1.4	59.6	52.9
Singapore	2622	57.4	9.6	7.9	24.0	1.2	57.4	0.0	0.1	1.1	59.4	55.7
Slovenia	945	58.8	7.8	14.3	12.9	6.2	58.8	0.1	0.3	5.8	58.6	59.0
Thailand	1092	48.4	14.4	14.9	19.0	3.2	48.4	0.1	0.2	2.9	49.0	47.9
United States	1435	59.7	12.9	11.5	13.9	2.1	59.7	0.1	0.0	2.0	61.9	57.5
INTERNATIONAL AVG	.	52.0	12.6	15.0	15.2	5.3	52.0	0.4	0.7	4.1	52.4	51.6

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

Item: D02 KEY: D  
 Shown diagram of mouth, which teeth are used for grinding food? (Life Science)  
 Difficulty: 481

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	9.7	9.9	17.6	58.6	4.2	58.6	0.0	0.3	3.9	59.6	57.6
Austria	947	7.3	6.7	11.8	67.1	7.0	67.1	0.5	0.8	5.8	68.3	66.5
Canada	2826	9.2	9.7	18.2	60.9	2.0	60.9	0.2	0.2	1.6	60.7	62.2
Cyprus	1220	7.6	7.2	17.1	57.3	10.7	57.3	0.5	0.8	9.4	59.1	55.6
Czech Republic	1219	11.6	3.6	14.4	61.4	9.0	61.4	1.9	1.5	5.6	63.4	59.4
England	1133	9.4	9.6	15.5	60.9	4.7	60.9	0.0	0.4	4.3	60.0	61.8
Greece	1096	6.8	5.1	14.1	58.0	16.0	58.0	1.4	1.5	13.0	54.0	61.6
Hong Kong	1639	7.3	5.9	12.8	71.4	2.6	71.4	0.8	0.1	1.8	76.1	67.7
Hungary	1130	6.9	8.6	13.7	59.8	11.1	59.8	0.0	2.6	8.5	58.9	61.6
Iceland	630	9.4	11.2	13.4	59.1	6.9	59.1	0.3	3.7	2.9	59.6	58.5
Iran, Islamic Rep.	1265	10.3	6.8	14.8	48.0	20.1	48.0	2.4	1.6	16.1	48.9	47.0
Ireland	1089	11.5	11.8	17.4	55.2	4.0	55.2	0.6	0.5	2.9	57.4	53.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	3.8	2.0	10.2	83.6	0.5	83.6	0.0	0.1	0.3	86.0	81.2
Korea	1058	6.6	2.9	7.5	82.9	0.1	82.9	0.0	0.0	0.1	84.8	81.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	9.9	6.5	12.3	60.7	10.5	60.7	0.0	0.9	9.6	64.4	56.9
Netherlands	1047	6.6	5.4	16.0	70.5	1.5	70.5	1.5	0.0	0.1	73.8	67.0
New Zealand	949	10.7	10.9	18.4	56.0	4.0	56.0	0.0	0.7	3.3	59.5	52.5
Norway	828	8.5	6.2	17.3	55.9	12.1	55.9	0.4	3.0	8.6	57.6	53.9
Portugal	1003	7.8	9.6	15.9	50.7	16.0	50.7	0.0	4.7	11.3	51.0	50.4
Scotland	1177	10.5	12.7	19.5	54.1	3.2	54.1	0.4	0.5	2.3	51.6	56.7
Singapore	2622	8.2	6.2	13.6	71.1	0.9	71.1	0.0	0.1	0.8	73.8	68.8
Slovenia	945	8.8	9.9	11.6	63.6	6.0	63.6	0.3	0.5	5.2	62.4	64.9
Thailand	1092	11.3	5.5	16.2	65.9	1.1	65.9	0.0	0.2	0.9	65.8	66.1
United States	1435	7.8	7.8	15.7	67.1	1.6	67.1	0.0	0.1	1.4	68.6	65.6
INTERNATIONAL AVG	.	8.6	7.6	14.8	62.5	6.5	62.5	0.5	1.0	5.0	63.5	61.6

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



Item: D03 KEY: B  
 Which of the following animals does not lay eggs? (Life Science)  
 Difficulty: 332

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	1.4	93.6	2.3	1.2	1.5	93.6	0.0	0.3	1.1	94.5	92.7
Austria	947	1.6	92.1	1.6	1.9	2.9	92.1	1.7	1.0	0.2	92.0	92.4
Canada	2826	1.0	93.8	1.9	1.7	1.6	93.8	1.0	0.2	0.4	94.1	93.5
Cyprus	1220	3.9	69.7	10.4	1.7	14.3	69.7	10.9	1.2	2.2	68.0	71.3
Czech Republic	1220	2.3	79.8	4.9	3.5	9.5	79.8	7.1	1.6	0.8	78.7	80.9
England	1133	1.7	91.8	1.7	2.0	2.8	91.8	0.0	0.6	2.2	92.2	91.5
Greece	1096	1.6	84.1	3.6	1.7	9.0	84.1	5.9	1.6	1.6	82.9	85.1
Hong Kong	1638	0.9	82.9	6.4	2.8	7.1	82.9	6.4	0.1	0.6	82.5	83.6
Hungary	1130	3.5	72.8	0.0	3.4	20.2	72.8	0.0	3.4	16.8	74.9	71.1
Iceland	630	3.7	79.8	6.3	1.5	8.7	79.8	3.9	3.8	0.9	81.4	78.1
Iran, Islamic Rep.	1265	16.2	54.0	6.5	6.9	16.5	54.0	9.7	2.1	4.6	54.5	53.4
Ireland	1089	0.7	94.5	1.4	1.5	2.0	94.5	0.9	0.6	0.5	95.7	93.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	0.7	91.4	2.2	4.6	1.1	91.4	0.7	0.2	0.2	91.1	91.7
Korea	1058	0.1	93.6	1.4	4.7	0.2	93.6	0.0	0.0	0.2	93.1	94.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	3.6	74.9	4.5	2.3	14.7	74.9	0.0	0.9	13.8	74.4	75.4
Netherlands	1047	0.4	91.5	0.6	0.1	7.4	91.5	7.2	0.0	0.1	91.7	91.1
New Zealand	949	2.0	89.5	3.2	2.2	3.0	89.5	0.0	0.8	2.2	92.5	86.6
Norway	828	3.4	82.0	0.8	2.4	11.4	82.0	5.1	3.7	2.6	82.8	81.5
Portugal	1003	4.0	76.0	2.6	2.7	14.7	76.0	0.0	5.1	9.5	75.4	76.6
Scotland	1177	1.6	92.6	2.4	1.6	1.9	92.6	0.9	0.5	0.5	93.0	92.4
Singapore	2622	1.4	92.5	2.6	2.8	0.7	92.5	0.0	0.1	0.6	92.9	92.3
Slovenia	945	3.1	87.9	2.4	2.3	4.4	87.9	2.6	0.5	1.2	87.3	88.5
Thailand	1092	3.3	92.1	1.9	1.9	0.8	92.1	0.0	0.4	0.5	94.2	89.9
United States	1435	1.3	93.3	2.7	1.7	1.0	93.3	0.0	0.1	0.9	92.7	93.8
INTERNATIONAL AVG	.	2.6	85.3	3.1	2.5	6.5	85.3	2.7	1.2	2.7	85.5	85.0

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 Science Item Categories - THIRD GRADE

May 14, 1998 18

Item: D04 KEY: C  
 Shown diagram of Earth, which layer is the hottest? (Earth Science)  
 Difficulty: 454

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1784	13.6	7.3	70.7	5.9	2.6	70.7	0.0	0.4	2.2	69.4	72.0
Austria	947	11.5	7.8	67.0	8.2	5.4	67.0	1.0	1.1	3.3	64.3	70.3
Canada	2826	8.1	7.1	77.1	6.3	1.4	77.1	0.1	0.2	1.2	75.4	77.8
Cyprus	1220	11.8	8.8	57.1	13.4	8.9	57.1	0.9	1.2	6.8	53.5	60.8
Czech Republic	1220	9.5	5.7	69.6	9.4	5.8	69.6	0.6	1.6	3.6	67.9	71.4
England	1133	7.1	5.9	77.6	6.4	3.0	77.6	0.0	0.6	2.4	77.4	77.8
Greece	1096	9.5	7.7	60.9	9.5	12.3	60.9	1.0	1.6	9.7	59.0	62.6
Hong Kong	1638	14.6	6.0	69.8	7.2	2.3	69.8	1.1	0.1	1.2	65.9	73.4
Hungary	1130	6.7	6.8	61.8	15.4	9.2	61.8	0.0	3.9	5.4	62.2	61.9
Iceland	630	8.7	9.7	60.0	13.6	8.0	60.0	0.2	4.0	3.8	59.1	61.0
Iran, Islamic Rep.	1265	13.2	10.3	47.0	13.7	15.9	47.0	1.5	2.6	11.8	48.8	44.9
Ireland	1089	8.1	7.0	73.3	9.1	2.5	73.3	0.5	0.7	1.3	71.5	75.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1607	8.5	5.5	83.5	1.9	0.6	83.5	0.0	0.3	0.3	80.9	86.0
Korea	1058	10.3	5.9	81.0	2.8	0.0	81.0	0.0	0.0	0.0	77.8	83.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	8.4	10.9	62.1	11.0	7.6	62.1	0.0	1.3	6.4	59.0	65.1
Netherlands	1047	12.6	7.3	72.3	6.7	1.1	72.3	1.0	0.0	0.1	66.8	77.4
New Zealand	949	10.5	6.5	72.2	7.3	3.6	72.2	0.0	1.0	2.5	72.1	72.2
Norway	828	7.9	6.3	68.5	6.4	10.8	68.5	0.7	4.1	6.1	64.0	72.8
Portugal	1003	7.6	6.7	57.7	12.2	15.8	57.7	0.0	5.5	10.4	52.6	62.8
Scotland	1177	8.9	6.0	76.3	6.3	2.5	76.3	0.4	0.6	1.6	75.4	77.1
Singapore	2622	12.4	6.2	72.0	8.7	0.7	72.0	0.0	0.1	0.6	71.3	72.6
Slovenia	945	14.1	5.0	67.1	10.4	3.5	67.1	0.4	0.7	2.4	60.5	73.7
Thailand	1092	14.0	5.5	59.3	19.8	1.4	59.3	0.0	0.4	1.1	61.0	57.4
United States	1435	5.8	5.0	83.0	5.0	1.1	83.0	0.0	0.1	1.0	82.6	83.5
INTERNATIONAL AVG	.	10.1	7.0	68.6	9.0	5.3	68.6	0.4	1.3	3.5	66.6	70.5

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

Item: E05 KEY: A  
 When you make soap bubbles, what is inside the bubbles? (Physical Science)  
 Difficulty: 514

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	63.7	17.9	3.7	13.0	1.8	63.7	0.0	0.8	1.0	62.0	65.5
Austria	936	54.0	21.7	3.9	17.7	2.8	54.0	1.5	0.5	0.7	49.4	58.7
Canada	2847	66.9	17.3	4.3	9.2	2.2	66.9	0.3	1.4	0.6	63.4	69.6
Cyprus	1237	25.0	47.2	8.9	13.1	5.8	25.0	2.9	1.9	1.0	24.6	25.6
Czech Republic	1227	65.3	14.9	3.8	12.6	3.4	65.3	1.2	1.5	0.8	61.3	69.7
England	1129	66.0	18.0	4.5	9.2	2.3	66.0	0.0	1.1	1.2	66.6	65.3
Greece	1124	35.0	39.5	6.3	12.4	6.8	35.0	4.7	1.3	0.8	34.0	36.1
Hong Kong	1632	52.9	30.7	8.6	6.5	1.4	52.9	0.2	0.1	1.1	52.2	53.2
Hungary	1139	66.7	12.1	4.3	9.3	7.6	66.7	0.0	4.9	2.8	65.2	69.0
Iceland	627	49.1	27.5	3.5	12.7	7.2	49.1	0.3	5.2	1.7	45.6	52.4
Iran, Islamic Rep.	1250	36.0	18.0	20.2	17.9	7.9	36.0	0.7	2.3	4.9	35.3	37.0
Ireland	1065	64.1	13.3	9.1	11.9	1.6	64.1	0.2	0.8	0.6	62.0	66.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	76.2	13.7	7.0	2.8	0.3	76.2	0.1	0.1	0.1	77.0	75.5
Korea	1031	74.9	17.7	4.6	2.7	0.0	74.9	0.0	0.0	0.0	72.9	76.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	54.8	20.5	5.4	15.3	4.0	54.8	0.0	2.1	1.9	51.1	58.7
Netherlands	1049	66.1	13.8	4.3	14.2	1.6	66.1	1.4	0.0	0.2	66.2	66.0
New Zealand	938	58.6	18.5	5.9	14.3	2.7	58.6	0.0	1.2	1.6	55.4	62.4
Norway	824	56.2	20.2	1.8	11.5	10.3	56.2	0.8	7.2	2.3	52.8	58.5
Portugal	994	50.5	21.8	5.8	11.6	10.3	50.5	0.0	7.2	3.2	46.5	54.5
Scotland	1193	58.5	20.4	7.3	12.1	1.7	58.5	0.4	0.6	0.7	58.7	58.0
Singapore	2645	46.6	27.8	12.9	12.2	0.6	46.6	0.0	0.0	0.6	41.9	51.0
Slovenia	940	62.4	19.2	7.0	9.3	2.1	62.4	0.1	1.2	0.9	57.5	67.0
Thailand	1157	51.5	12.7	21.3	12.9	1.6	51.5	0.1	0.5	1.0	51.3	51.8
United States	1437	69.9	16.6	5.7	5.5	2.3	69.9	0.1	0.3	1.8	67.3	72.2
INTERNATIONAL AVG	.	57.1	20.9	7.1	11.2	3.7	57.1	0.6	1.8	1.3	55.0	59.2

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

Item: E06 KEY: D  
 Which of the following is hottest? (astronomical bodies) (Earth Science)  
 Difficulty: 278

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	1.5	1.5	1.4	93.2	2.5	93.2	0.0	0.9	1.6	94.6	91.7
Austria	936	1.6	1.1	0.5	94.9	2.0	94.9	0.3	0.6	1.1	94.4	95.5
Canada	2847	2.6	1.6	1.0	92.4	2.3	92.4	0.1	1.6	0.7	92.7	92.9
Cyprus	1237	14.8	3.2	5.5	72.1	4.5	72.1	0.5	2.1	1.9	68.0	76.2
Czech Republic	1227	5.7	0.6	0.7	90.8	2.1	90.8	0.2	1.6	0.3	90.0	91.8
England	1129	1.9	2.0	0.7	93.3	2.1	93.3	0.0	1.1	1.0	94.9	91.5
Greece	1124	0.7	0.5	0.3	96.4	2.2	96.4	0.2	1.4	0.6	97.0	95.9
Hong Kong	1632	0.6	23.1	0.3	75.0	1.1	75.0	0.2	0.1	0.8	69.0	79.6
Hungary	1139	2.2	3.8	0.6	86.1	7.3	86.1	0.0	5.1	2.2	83.0	89.4
Iceland	627	2.1	1.3	0.2	89.2	7.2	89.2	0.0	5.4	1.8	87.6	90.6
Iran, Islamic Rep.	1250	4.5	7.6	8.7	71.7	7.5	71.7	1.2	2.3	4.0	73.3	69.8
Ireland	1065	2.2	2.4	1.7	91.6	2.1	91.6	0.4	0.9	0.8	91.4	91.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	1.1	9.0	0.5	89.0	0.4	89.0	0.0	0.2	0.2	86.4	91.5
Korea	1031	1.4	7.5	0.5	90.5	0.1	90.5	0.0	0.0	0.1	88.0	92.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	2.9	1.1	0.6	91.4	4.0	91.4	0.0	2.3	1.7	92.8	89.9
Netherlands	1049	1.6	2.0	1.5	93.5	1.4	93.5	1.0	0.0	0.4	92.9	94.0
New Zealand	938	2.9	2.6	2.0	89.6	2.8	89.6	0.0	1.3	1.5	92.2	86.6
Norway	824	0.5	0.6	0.6	88.6	9.7	88.6	0.1	7.6	2.0	87.8	89.8
Portugal	994	1.6	1.7	1.4	84.3	11.0	84.3	0.0	7.8	3.2	81.7	86.8
Scotland	1193	1.7	2.6	1.3	92.8	1.5	92.8	0.1	0.7	0.8	92.7	92.7
Singapore	2645	5.6	3.9	2.8	87.4	0.3	87.4	0.0	0.0	0.3	88.3	86.7
Slovenia	940	2.0	1.3	0.5	94.3	1.9	94.3	0.2	1.2	0.4	94.0	94.7
Thailand	1157	5.1	1.8	3.3	88.5	1.3	88.5	0.0	0.8	0.6	88.8	88.2
United States	1437	2.4	1.3	1.3	92.8	2.3	92.8	0.1	0.4	1.8	93.3	92.4
INTERNATIONAL AVG	.	2.9	3.5	1.6	88.7	3.3	88.7	0.2	1.9	1.2	88.1	89.3

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

Item: E07 KEY: C  
 What changes would you expect in pulse and breathing after running a 50 metre race? (Life Science)  
 Difficulty: 535

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	11.8	10.3	49.3	14.4	8.4	5.7	49.3	0.0	0.9	4.8	48.3	50.3
Austria	936	4.5	9.5	62.9	10.4	7.4	5.3	62.9	0.0	0.7	4.6	60.6	65.3
Canada	2847	15.2	10.6	46.4	14.6	8.4	4.7	46.4	0.2	1.6	2.9	47.8	47.6
Cyprus	1237	22.0	10.8	34.2	12.0	8.6	12.5	34.2	0.4	2.2	9.9	33.6	34.4
Czech Republic	1227	6.8	11.7	49.3	7.0	13.7	11.5	49.3	0.3	1.7	9.4	45.9	53.0
England	1129	13.7	9.0	50.9	11.1	8.5	6.8	50.9	0.0	1.2	5.6	47.3	54.6
Greece	1124	14.4	9.6	35.0	11.5	7.4	22.1	35.0	0.3	1.4	20.4	35.3	34.9
Hong Kong	1632	9.9	14.2	54.8	9.7	7.3	4.0	54.8	0.3	0.1	3.7	51.6	57.4
Hungary	1139	9.4	9.8	50.2	8.2	11.3	11.1	50.2	0.0	5.4	5.7	47.2	52.8
Iceland	627	9.3	11.9	45.9	10.5	10.7	11.6	45.9	0.0	5.4	6.2	43.7	48.1
Iran, Islamic Rep.	1250	9.1	12.8	31.3	8.5	14.8	23.5	31.3	1.3	2.5	19.7	30.0	32.9
Ireland	1065	18.2	8.6	39.1	16.3	12.3	5.4	39.1	0.4	0.9	4.1	35.9	42.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	11.8	13.6	55.9	10.3	7.1	1.3	55.9	0.0	0.2	1.1	56.0	55.7
Korea	1031	8.2	8.9	69.9	10.6	2.2	0.2	69.9	0.0	0.0	0.2	67.3	72.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	760	8.8	13.7	50.9	9.1	8.3	9.2	50.9	0.0	2.4	6.7	51.7	50.1
Netherlands	1049	5.7	13.4	64.5	6.8	7.7	1.8	64.5	1.4	0.0	0.5	62.8	66.3
New Zealand	938	11.3	12.7	44.2	12.5	14.6	4.7	44.2	0.0	1.3	3.4	44.9	43.6
Norway	824	7.2	8.6	56.9	6.1	5.5	15.7	56.9	0.0	7.7	8.0	55.0	58.8
Portugal	994	7.4	10.8	42.6	5.7	9.6	23.9	42.6	0.0	7.8	16.1	36.3	48.8
Scotland	1193	12.4	10.3	46.7	13.5	11.9	5.2	46.7	0.2	0.7	4.3	45.4	47.9
Singapore	2645	16.0	12.8	43.3	15.4	10.7	1.7	43.3	0.0	0.0	1.7	41.9	44.5
Slovenia	940	6.6	7.6	67.6	4.8	7.5	5.9	67.6	0.2	1.2	4.5	67.0	68.2
Thailand	1157	11.3	15.7	39.8	14.3	15.6	3.3	39.8	0.0	0.8	2.5	38.1	41.6
United States	1437	12.3	12.0	49.0	14.6	8.1	4.0	49.0	0.0	0.4	3.6	46.3	51.4
INTERNATIONAL AVG	.	11.0	11.2	49.2	10.7	9.5	8.4	49.2	0.2	1.9	6.2	47.5	50.9

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

Item: E08

What happens to plants and fish when a factory pours large amounts of hot water into a river? (Environment and other content)

Difficulty: 449

COUNTRY	N	10	11	12	19	70	79	90	99	V1	NOT	1.GIRL	2.BOY	
											REACH			ED
Australia	1771	0.7	71.0	1.7	4.3	1.6	6.9	0.8	13.0	77.6	1.3	11.7	82.0	73.0
Austria	936	0.0	51.6	0.2	13.5	7.5	3.9	2.1	21.2	65.2	1.1	20.1	65.4	65.1
Canada	2847	1.3	52.4	1.0	16.1	5.1	7.7	3.1	13.3	70.8	1.7	11.6	73.1	68.9
Cyprus	1238	1.7	52.2	0.8	3.4	1.5	9.6	0.7	30.2	58.1	3.3	26.9	58.1	58.4
Czech Republic	1227	0.3	61.3	0.5	3.9	6.8	4.1	2.0	21.1	66.1	3.1	18.0	67.6	64.4
England	1129	2.1	63.4	1.0	2.6	4.7	5.8	2.9	17.5	69.0	1.6	15.9	70.6	67.3
Greece	1124	2.2	49.5	0.5	5.9	3.0	5.3	2.5	31.1	58.1	2.8	28.3	57.6	58.6
Hong Kong	1629	0.5	52.2	1.8	8.7	8.9	7.0	1.5	19.5	63.1	0.1	19.5	61.8	64.3
Hungary	1139	0.5	61.2	3.1	6.1	3.5	2.7	0.7	22.1	71.0	6.0	16.1	73.6	70.2
Iceland	627	0.2	44.4	0.6	5.6	0.5	5.0	7.2	36.6	50.6	6.6	30.0	50.2	51.1
Iran, Islamic Rep.	1250	0.7	17.3	0.1	6.3	2.5	7.0	2.8	63.4	24.3	4.7	58.7	23.0	25.9
Ireland	1065	1.2	55.2	1.3	15.0	3.1	3.3	2.8	18.1	72.7	0.9	17.2	76.7	69.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	0.3	61.6	3.2	15.8	13.5	0.4	1.2	3.9	80.9	0.2	3.7	79.5	82.4
Korea	1031	5.0	78.5	0.5	6.6	2.7	4.2	1.7	0.9	90.6	0.0	0.9	92.5	88.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	761	0.6	57.7	0.6	16.7	1.3	7.0	0.4	15.7	75.7	3.1	12.6	79.6	71.5
Netherlands	1049	1.6	74.7	0.8	1.6	6.8	8.1	0.5	5.7	78.8	0.0	5.7	78.1	79.8
New Zealand	938	0.6	72.6	1.7	1.5	2.7	4.4	1.8	14.7	76.3	1.6	13.1	79.1	73.1
Norway	824	0.7	52.7	0.7	1.2	4.0	2.7	3.9	34.2	55.3	8.9	25.4	56.1	54.6
Portugal	994	0.3	56.1	0.9	0.9	2.5	3.5	1.7	34.2	58.2	9.4	24.9	55.9	60.5
Scotland	1193	1.6	65.6	1.2	3.2	3.4	7.4	2.3	15.2	71.6	0.9	14.3	72.6	70.4
Singapore	2645	2.4	68.6	0.6	10.4	2.0	6.9	3.5	5.7	82.0	0.0	5.7	83.9	80.2
Slovenia	940	3.1	65.8	0.2	8.5	1.6	5.2	1.8	13.9	77.5	1.9	11.9	77.7	77.3
Thailand	1157	0.0	39.5	0.0	25.8	0.2	8.0	0.1	26.4	65.3	0.8	25.6	72.2	58.3
United States	1438	0.4	70.7	0.8	4.4	4.8	6.5	1.1	11.2	76.3	0.4	10.8	77.9	74.9
INTERNATIONAL AVG	.	1.2	58.2	1.0	7.8	3.9	5.5	2.0	20.4	68.1	2.5	17.9	69.4	67.0

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: E09 KEY: C  
 Given several recent floods, when will it flood next? (Earth Science)  
 Difficulty: 606

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1771	23.5	16.6	43.2	13.5	3.2	43.2	0.0	1.6	1.7	50.2	35.7
Austria	935	16.9	17.3	49.1	11.5	5.2	49.1	1.4	1.7	2.2	49.5	49.1
Canada	2847	16.6	22.5	41.7	14.0	5.3	41.7	1.1	2.0	2.1	42.8	39.7
Cyprus	1239	20.3	21.2	33.9	9.4	15.1	33.9	4.1	4.9	6.2	35.8	32.1
Czech Republic	1227	20.4	16.3	40.2	13.4	9.7	40.2	0.9	3.7	5.1	40.5	40.0
England	1129	22.7	20.4	36.5	15.7	4.7	36.5	0.0	1.8	2.9	34.9	38.2
Greece	1124	23.2	21.3	27.3	9.2	18.8	27.3	5.6	3.1	10.1	30.8	24.0
Hong Kong	1633	33.3	21.9	34.4	9.1	1.4	34.4	0.1	0.1	1.1	36.4	32.8
Hungary	1138	15.3	16.2	45.1	10.9	12.5	45.1	0.0	7.2	5.3	45.0	45.8
Iceland	627	23.2	23.9	32.2	8.5	12.2	32.2	0.5	7.6	4.1	38.8	25.9
Iran, Islamic Rep.	1250	31.1	22.3	11.0	13.2	22.4	11.0	2.8	5.4	14.2	10.5	11.5
Ireland	1065	26.3	21.0	34.1	14.9	3.7	34.1	1.1	1.0	1.6	38.1	30.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1620	20.3	15.0	57.1	6.3	1.2	57.1	0.5	0.2	0.5	62.3	51.9
Korea	1031	27.9	12.4	55.7	3.8	0.2	55.7	0.0	0.0	0.2	55.2	56.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	760	17.1	20.2	35.0	19.2	8.5	35.0	0.0	3.4	5.0	38.9	30.8
Netherlands	1049	23.2	19.3	41.2	14.7	1.6	41.2	1.4	0.0	0.2	44.7	38.1
New Zealand	938	20.1	20.2	39.0	15.6	5.1	39.0	0.0	2.2	2.9	44.5	32.6
Norway	824	19.4	22.9	26.9	12.1	18.6	26.9	0.9	10.5	7.2	30.4	24.0
Portugal	994	20.9	19.3	25.6	10.2	24.1	25.6	0.0	10.7	13.4	24.1	27.0
Scotland	1193	20.0	23.3	36.2	16.4	4.1	36.2	1.0	1.5	1.6	42.6	28.6
Singapore	2645	27.0	18.6	39.3	13.3	1.7	39.3	0.0	0.0	1.7	38.6	40.0
Slovenia	940	10.9	10.3	56.4	16.0	6.4	56.4	0.6	3.1	2.7	57.5	55.4
Thailand	1157	30.6	18.5	34.8	12.4	3.8	34.8	0.0	0.9	2.9	35.5	34.1
United States	1438	18.2	21.3	47.4	10.1	2.9	47.4	0.5	0.5	2.0	47.7	47.2
INTERNATIONAL AVG	.	22.0	19.3	38.5	12.2	8.0	38.5	0.9	3.0	4.0	40.6	36.3

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

Item: F01 KEY: A  
 Which of the following plants is grown for food? (Life Science)  
 Difficulty: 367

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	74.7	8.4	10.1	5.2	1.6	74.7	0.0	0.6	1.0	77.1	72.1
Austria	950	79.2	3.4	9.5	5.8	2.2	79.2	0.2	0.3	1.6	77.9	81.1
Canada	2850	75.3	9.2	9.6	4.6	1.3	75.3	0.2	0.1	0.9	75.9	73.7
Cyprus	1219	84.7	2.1	6.8	3.1	3.3	84.7	0.4	1.1	1.8	85.2	84.0
Czech Republic	1233	90.5	1.5	2.6	1.9	3.5	90.5	1.6	0.6	1.3	89.6	91.4
England	1134	79.7	7.2	7.2	3.9	2.0	79.7	0.0	0.3	1.7	78.3	81.1
Greece	1115	88.1	2.2	2.8	2.4	4.5	88.1	1.2	0.8	2.4	86.6	89.8
Hong Kong	1644	93.9	1.4	1.4	0.6	2.8	93.9	1.3	0.0	1.5	94.4	93.5
Hungary	1134	76.9	4.0	7.2	5.1	6.8	76.9	0.0	1.7	5.1	77.6	76.9
Iceland	631	73.0	8.2	11.3	5.1	2.5	73.0	0.1	1.6	0.8	72.4	73.7
Iran, Islamic Rep.	1260	73.6	7.3	4.0	6.1	9.1	73.6	2.1	1.4	5.6	77.2	69.1
Ireland	1083	80.3	6.9	8.1	3.5	1.2	80.3	0.1	0.6	0.6	79.3	81.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	79.2	5.5	10.1	4.8	0.5	79.2	0.1	0.1	0.3	81.6	76.7
Korea	1047	86.9	4.7	3.6	4.9	0.0	86.9	0.0	0.0	0.0	86.2	87.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	83.4	5.2	2.8	5.4	3.3	83.4	0.0	0.0	3.3	84.3	82.5
Netherlands	1048	66.9	12.6	12.4	6.7	1.4	66.9	1.2	0.0	0.1	65.2	68.4
New Zealand	943	74.4	8.6	8.5	6.3	2.3	74.4	0.0	0.6	1.7	74.6	74.2
Norway	814	82.8	2.7	7.4	3.3	3.8	82.8	0.4	2.3	1.2	81.3	84.0
Portugal	996	81.2	2.8	6.6	4.4	5.0	81.2	0.0	2.2	2.9	83.7	78.6
Scotland	1180	80.0	5.5	9.0	4.5	1.0	80.0	0.3	0.2	0.4	79.7	80.3
Singapore	2623	76.8	12.0	5.5	3.3	2.3	76.8	0.0	0.0	2.3	78.2	75.4
Slovenia	956	76.4	5.5	9.5	5.4	3.1	76.4	0.4	0.3	2.5	75.1	77.7
Thailand	1117	90.9	1.1	5.6	1.2	1.1	90.9	0.0	0.0	1.1	91.1	90.8
United States	1438	77.8	7.3	8.3	4.6	2.0	77.8	0.1	0.1	1.9	80.4	75.4
INTERNATIONAL AVG	.	80.3	5.6	7.1	4.3	2.8	80.3	0.4	0.6	1.7	80.5	80.0

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



Item: F02 KEY: B  
 Each year the Earth moves once around which of the following? (Earth Science)  
 Difficulty: 496

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	6.4	60.6	16.9	14.6	1.5	60.6	0.0	0.6	0.9	58.9	62.5
Austria	950	6.0	70.2	7.8	12.5	3.5	70.2	0.6	0.3	2.6	65.5	74.8
Canada	2850	6.4	63.5	13.1	15.6	1.4	63.5	0.0	0.1	1.3	61.2	67.7
Cyprus	1219	7.7	45.5	17.4	24.8	4.5	45.5	0.3	1.3	2.8	41.9	49.2
Czech Republic	1233	4.7	66.8	7.1	17.3	4.1	66.8	0.8	0.8	2.5	64.4	69.3
England	1134	6.5	68.4	13.9	8.9	2.3	68.4	0.0	0.4	1.9	63.5	73.2
Greece	1115	3.3	75.0	8.5	8.7	4.4	75.0	1.0	0.9	2.5	70.4	79.7
Hong Kong	1644	10.8	66.7	11.7	8.5	2.3	66.7	0.4	0.0	1.9	64.7	68.4
Hungary	1134	6.9	61.1	6.3	17.1	8.5	61.1	0.0	2.6	6.0	58.8	64.4
Iceland	631	7.6	62.8	12.7	13.9	3.0	62.8	0.3	1.7	1.0	63.6	62.1
Iran, Islamic Rep.	1260	5.2	47.5	30.4	10.2	6.7	47.5	0.9	1.9	3.8	43.0	53.2
Ireland	1083	9.2	58.0	19.1	12.2	1.6	58.0	0.4	0.6	0.6	54.4	61.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	10.4	59.1	17.2	12.8	0.5	59.1	0.0	0.1	0.4	53.1	65.1
Korea	1047	10.1	62.3	11.3	16.1	0.3	62.3	0.0	0.0	0.3	56.2	67.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	8.3	65.8	9.0	13.3	3.7	65.8	0.0	0.5	3.3	67.1	64.5
Netherlands	1048	15.8	45.6	14.3	22.6	1.8	45.6	1.7	0.0	0.1	41.5	49.7
New Zealand	943	8.1	53.7	16.4	19.7	2.1	53.7	0.0	0.9	1.2	51.3	56.3
Norway	814	12.3	62.7	10.5	9.4	5.1	62.7	0.0	2.6	2.5	60.0	65.2
Portugal	996	5.0	51.3	11.2	24.4	8.1	51.3	0.0	2.9	5.2	49.2	53.5
Scotland	1180	8.8	58.6	14.6	16.4	1.6	58.6	0.3	0.2	1.0	55.6	61.5
Singapore	2623	7.2	63.2	10.5	16.5	2.5	63.2	0.0	0.1	2.4	60.6	65.8
Slovenia	956	13.1	50.7	11.2	21.7	3.3	50.7	0.2	0.3	2.7	46.2	55.1
Thailand	1117	6.0	50.6	12.9	28.9	1.7	50.6	0.0	0.0	1.7	47.5	53.8
United States	1438	5.6	69.5	12.5	10.5	1.9	69.5	0.1	0.1	1.7	72.2	66.9
INTERNATIONAL AVG	.	8.0	60.0	13.2	15.7	3.2	60.0	0.3	0.8	2.1	57.1	63.0

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

Item: F03 KEY: D  
 Shown diagrams of rocks before and after being rubbed against hard steel, circle hardest rock. (Earth Science)  
 Difficulty: 516

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	17.7	4.8	8.4	63.0	6.0	63.0	0.0	0.6	5.4	63.3	62.8
Austria	950	12.2	5.1	11.9	64.5	6.2	64.5	0.8	0.3	5.1	66.1	63.2
Canada	2850	16.9	5.9	9.9	60.1	7.1	60.1	2.1	0.2	4.8	60.9	61.0
Cyprus	1219	19.9	6.0	15.9	39.9	18.3	39.9	1.6	1.5	15.2	39.3	40.6
Czech Republic	1233	12.1	4.7	11.3	61.4	10.6	61.4	3.7	0.8	6.1	60.7	62.1
England	1134	19.6	5.3	10.4	54.9	9.9	54.9	0.0	0.4	9.5	53.4	56.3
Greece	1115	10.8	6.5	13.3	53.6	15.7	53.6	3.5	1.0	11.2	53.6	53.7
Hong Kong	1644	14.1	4.9	9.8	57.2	14.0	57.2	3.8	0.0	10.2	58.5	56.3
Hungary	1134	20.2	6.9	15.1	44.5	13.2	44.5	0.0	2.8	10.4	43.2	46.1
Iceland	631	24.6	5.9	16.2	44.8	8.5	44.8	0.9	1.8	5.8	44.3	45.3
Iran, Islamic Rep.	1260	25.5	9.4	10.8	34.9	19.5	34.9	4.8	2.3	12.4	35.5	34.1
Ireland	1083	17.2	5.6	11.9	55.4	10.0	55.4	6.4	0.6	3.0	54.4	56.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	7.9	4.4	6.7	78.4	2.6	78.4	0.1	0.2	2.3	80.1	76.8
Korea	1047	12.3	6.2	9.9	70.3	1.4	70.3	0.0	0.0	1.4	69.6	70.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	15.8	5.5	17.0	55.1	6.6	55.1	0.0	0.5	6.1	58.4	51.9
Netherlands	1048	15.1	7.0	11.5	61.7	4.6	61.7	4.5	0.0	0.1	60.8	63.3
New Zealand	943	21.8	5.9	11.0	53.8	7.5	53.8	0.0	0.9	6.6	52.9	54.7
Norway	815	20.8	5.3	7.9	49.6	16.4	49.6	0.4	2.9	13.1	49.9	48.9
Portugal	996	27.8	5.1	9.1	42.7	15.4	42.7	0.0	3.2	12.2	43.1	42.4
Scotland	1180	19.0	6.9	10.2	54.1	9.7	54.1	1.8	0.3	7.7	53.0	55.6
Singapore	2623	16.7	9.3	9.5	56.2	8.2	56.2	0.0	0.1	8.2	56.1	56.2
Slovenia	955	12.6	3.4	17.7	62.1	4.2	62.1	1.2	0.3	2.8	64.8	59.4
Thailand	1117	14.7	15.1	26.6	34.8	8.8	34.8	0.0	0.0	8.8	36.0	33.6
United States	1438	21.1	4.7	7.2	59.5	7.5	59.5	1.4	0.1	6.0	57.6	61.3
INTERNATIONAL AVG	.	17.4	6.2	12.1	54.7	9.7	54.7	1.5	0.9	7.3	54.8	54.7

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

Item: F04 KEY: C  
 Which of the following sets of time measurements is in order from shortest to longest? (Physical Science)  
 Difficulty: 475

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1774	6.1	8.7	72.1	8.6	4.4	72.1	0.0	0.7	3.8	70.8	73.6
Austria	950	7.0	9.3	67.0	10.8	6.0	67.0	0.4	0.7	4.9	70.1	63.9
Canada	2850	8.1	11.1	62.7	12.6	5.5	62.7	1.8	0.2	3.4	63.2	64.0
Cyprus	1219	10.1	15.6	48.6	11.6	14.1	48.6	1.7	2.0	10.4	47.8	49.8
Czech Republic	1233	4.4	4.1	77.1	8.5	5.9	77.1	1.6	0.9	3.5	76.8	77.4
England	1134	9.6	9.4	64.6	11.4	5.0	64.6	0.0	0.4	4.6	62.3	66.8
Greece	1115	7.9	10.1	56.9	9.4	15.6	56.9	1.5	1.2	13.0	52.9	61.0
Hong Kong	1644	9.8	18.2	48.4	17.5	6.0	48.4	1.0	0.0	5.0	44.0	51.7
Hungary	1134	5.9	8.6	64.9	9.6	10.9	64.9	0.0	3.3	7.6	65.8	64.5
Iceland	631	11.5	16.3	48.4	15.2	8.7	48.4	0.3	2.8	5.6	46.0	51.0
Iran, Islamic Rep.	1260	14.2	15.7	32.1	18.4	19.6	32.1	2.4	2.5	14.7	28.1	36.9
Ireland	1083	8.9	11.0	61.8	10.4	8.0	61.8	4.3	0.6	3.1	64.4	59.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1608	6.3	16.4	62.4	13.4	1.4	62.4	0.3	0.2	0.9	58.0	66.8
Korea	1047	3.7	8.0	76.0	12.0	0.3	76.0	0.0	0.0	0.3	70.7	80.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	763	9.5	12.0	59.1	12.4	7.1	59.1	0.0	0.6	6.5	61.1	57.1
Netherlands	1048	5.8	9.2	75.4	7.0	2.6	75.4	2.4	0.0	0.1	74.6	76.2
New Zealand	943	9.8	12.0	60.2	13.6	4.5	60.2	0.0	1.0	3.5	60.8	59.5
Norway	815	10.2	10.4	55.7	13.1	10.6	55.7	0.6	4.0	6.0	55.1	56.8
Portugal	996	11.3	11.1	48.6	15.0	14.0	48.6	0.0	3.5	10.6	44.3	53.1
Scotland	1180	8.5	10.9	60.6	14.3	5.7	60.6	1.6	0.4	3.7	60.8	59.8
Singapore	2623	9.3	10.0	69.3	9.4	2.0	69.3	0.0	0.1	1.9	69.0	69.6
Slovenia	955	7.8	9.7	72.9	4.4	5.3	72.9	1.1	0.3	3.9	71.0	74.8
Thailand	1117	7.6	13.5	59.0	18.2	1.6	59.0	0.0	0.0	1.6	60.1	58.0
United States	1438	8.5	8.2	71.8	8.5	2.9	71.8	0.1	0.1	2.7	73.5	70.3
INTERNATIONAL AVG	.	8.4	11.2	61.5	11.9	7.0	61.5	0.9	1.1	5.1	60.5	62.6

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

Item: G05 KEY: C  
 Where does air go when a person breathes in? (Life Science)  
 Difficulty: 411

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	5.2	3.6	85.9	2.6	2.8	85.9	0.0	0.5	2.3	87.2	84.6
Austria	950	10.3	5.6	78.6	3.1	2.4	78.6	0.2	0.3	1.9	76.2	80.4
Canada	2857	7.5	5.4	80.8	3.2	3.0	80.8	0.0	1.1	1.9	79.9	82.0
Cyprus	1245	11.2	9.7	70.4	2.5	6.2	70.4	0.1	2.1	4.0	67.8	72.9
Czech Republic	1225	3.7	1.1	91.4	0.1	3.7	91.4	0.4	2.1	1.3	90.9	91.8
England	1156	9.7	3.8	80.5	2.9	3.0	80.5	0.0	0.8	2.2	81.7	79.3
Greece	1117	10.8	5.5	75.2	1.3	7.2	75.2	0.2	1.5	5.5	76.1	74.2
Hong Kong	1640	24.8	9.2	59.6	4.6	1.7	59.6	0.2	0.0	1.5	56.5	62.4
Hungary	1144	6.1	3.9	81.7	0.9	7.4	81.7	0.0	3.9	3.5	82.2	80.8
Iceland	638	9.6	7.6	70.9	4.6	7.3	70.9	0.4	5.2	1.8	66.7	75.1
Iran, Islamic Rep.	1258	38.3	20.7	22.4	7.1	11.5	22.4	1.0	3.0	7.5	19.7	25.6
Ireland	1095	8.7	6.1	78.9	4.2	2.1	78.9	0.2	0.2	1.7	76.5	81.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	13.4	27.5	50.5	7.3	1.3	50.5	0.0	0.4	0.8	48.5	52.4
Korea	1041	26.0	8.8	61.4	3.3	0.5	61.4	0.0	0.0	0.5	61.1	61.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	759	10.2	8.4	75.9	1.0	4.5	75.9	0.0	1.6	2.9	73.9	78.0
Netherlands	1053	11.0	5.5	78.2	3.1	2.2	78.2	2.1	0.0	0.1	78.6	78.1
New Zealand	930	8.9	5.3	77.8	4.1	3.9	77.8	0.0	1.9	2.0	77.5	78.1
Norway	831	10.8	4.4	75.2	2.1	7.5	75.2	0.2	4.2	3.1	73.9	76.0
Portugal	998	5.6	3.2	81.8	1.5	7.9	81.8	0.0	5.0	2.8	80.2	83.5
Scotland	1173	9.8	7.6	76.1	2.9	3.7	76.1	0.1	1.5	2.1	75.6	76.4
Singapore	2641	15.6	9.7	66.2	7.4	1.1	66.2	0.0	0.1	1.0	67.3	65.3
Slovenia	941	3.1	3.1	89.2	1.2	3.4	89.2	0.1	0.9	2.4	90.4	88.0
Thailand	1059	36.6	7.4	51.5	2.5	2.1	51.5	0.0	0.1	1.9	50.4	52.6
United States	1445	8.7	5.0	80.3	2.5	3.4	80.3	0.0	0.1	3.3	81.9	78.8
INTERNATIONAL AVG	.	12.7	7.4	72.5	3.2	4.2	72.5	0.2	1.5	2.4	71.7	73.3

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

Item: G06 KEY: D  
 Shown diagram of plant, which part takes in the most water? (Life Science)  
 Difficulty: 353

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	2.3	2.3	3.2	91.2	1.0	91.2	0.0	0.5	0.5	92.4	90.0
Austria	950	4.2	2.1	3.8	87.5	2.5	87.5	0.3	0.3	1.9	89.0	86.0
Canada	2857	5.4	4.3	5.0	83.7	1.6	83.7	0.0	1.1	0.4	87.3	80.0
Cyprus	1245	5.3	2.4	5.6	81.9	4.7	81.9	0.2	2.2	2.3	82.6	81.3
Czech Republic	1225	0.8	1.9	2.3	90.8	4.3	90.8	0.9	2.1	1.3	91.7	89.8
England	1156	6.0	3.2	5.0	84.1	1.8	84.1	0.0	0.8	0.9	83.8	84.4
Greece	1116	3.3	2.3	3.7	85.6	5.1	85.6	0.1	1.6	3.3	86.9	84.2
Hong Kong	1640	3.6	6.7	10.6	76.0	3.1	76.0	0.9	0.0	2.2	75.3	76.5
Hungary	1144	2.0	2.4	3.9	84.3	7.4	84.3	0.0	4.0	3.4	83.2	85.3
Iceland	637	6.8	2.5	5.5	77.2	7.9	77.2	0.2	5.3	2.4	79.9	74.4
Iran, Islamic Rep.	1258	5.9	6.3	7.6	69.2	11.0	69.2	1.4	3.1	6.5	69.4	68.9
Ireland	1095	5.7	2.8	4.7	85.9	1.0	85.9	0.4	0.3	0.3	86.1	85.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	2.9	1.8	8.6	86.1	0.6	86.1	0.0	0.6	0.0	86.1	86.0
Korea	1041	3.6	2.6	4.5	89.1	0.2	89.1	0.0	0.0	0.2	88.1	90.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	759	3.5	3.0	6.2	83.8	3.5	83.8	0.0	1.7	1.8	83.8	83.7
Netherlands	1053	5.8	3.6	5.0	84.8	0.9	84.8	0.8	0.0	0.1	85.3	84.1
New Zealand	930	5.2	2.8	3.5	84.8	3.6	84.8	0.0	1.9	1.8	88.1	81.0
Norway	831	5.3	3.4	6.0	78.1	7.2	78.1	0.0	4.3	2.8	77.5	78.6
Portugal	998	5.0	3.5	7.9	74.7	8.9	74.7	0.0	5.0	3.8	74.1	75.3
Scotland	1173	7.2	2.0	6.9	81.8	2.2	81.8	0.2	1.5	0.5	82.3	81.4
Singapore	2642	6.8	4.3	5.3	82.9	0.7	82.9	0.0	0.1	0.6	81.8	83.9
Slovenia	941	3.4	2.4	5.8	86.4	2.1	86.4	0.0	0.9	1.1	88.0	84.8
Thailand	1059	2.6	3.3	4.6	88.2	1.3	88.2	0.0	0.1	1.1	89.5	87.0
United States	1445	5.4	3.9	5.6	83.3	1.9	83.3	0.0	0.1	1.7	84.7	81.9
INTERNATIONAL AVG	.	4.5	3.2	5.4	83.4	3.5	83.4	0.2	1.6	1.7	84.0	82.7

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

Item: G07 KEY: C  
 Shown several diagrams of a tree and its shadow, which shows the shadow at noon? (Earth Science)  
 Difficulty: 467

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	6.2	4.8	71.7	5.2	10.2	1.9	71.7	0.0	0.5	1.4	66.8	76.8
Austria	950	5.3	3.9	77.9	3.6	6.1	3.1	77.9	0.1	0.3	2.7	78.1	77.5
Canada	2857	10.6	6.1	61.2	7.6	12.0	2.5	61.2	0.1	1.1	1.4	53.8	69.2
Cyprus	1245	13.7	7.7	54.1	7.9	8.4	8.1	54.1	0.5	2.5	5.1	50.0	58.4
Czech Republic	1225	5.3	3.6	77.7	3.0	5.2	5.2	77.7	0.0	2.4	2.8	74.2	81.1
England	1156	7.4	4.0	64.8	7.0	12.6	4.2	64.8	0.0	1.0	3.2	60.8	69.1
Greece	1117	9.1	6.8	48.3	9.6	16.8	9.5	48.3	0.4	1.7	7.4	43.3	53.6
Hong Kong	1640	3.3	3.1	85.5	1.9	5.0	1.2	85.5	0.2	0.0	1.0	81.6	88.8
Hungary	1144	5.7	3.2	70.9	4.4	7.8	8.0	70.9	0.0	4.5	3.4	68.5	74.0
Iceland	637	14.2	9.7	47.9	8.3	9.8	10.0	47.9	0.4	5.9	3.7	45.0	50.8
Iran, Islamic Rep.	1258	13.0	4.0	46.6	6.5	17.7	12.1	46.6	0.9	3.3	7.9	42.1	52.0
Ireland	1095	7.4	7.5	63.3	6.5	13.0	2.3	63.3	0.3	0.3	1.7	63.3	63.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	4.0	5.5	77.3	6.0	6.4	0.7	77.3	0.0	0.6	0.1	75.1	79.4
Korea	1041	7.8	5.8	73.3	4.5	8.2	0.4	73.3	0.0	0.0	0.4	65.9	80.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	758	8.3	5.7	67.9	6.0	7.5	4.6	67.9	0.0	1.9	2.7	67.1	68.8
Netherlands	1053	9.4	10.2	59.1	10.1	10.1	1.2	59.1	1.0	0.0	0.2	56.0	61.8
New Zealand	930	6.1	5.4	65.7	7.2	11.3	4.3	65.7	0.0	2.0	2.3	63.8	67.9
Norway	831	7.1	5.8	62.5	5.5	8.6	10.5	62.5	0.0	5.1	5.4	57.8	66.4
Portugal	998	7.0	3.8	59.5	5.7	9.3	14.6	59.5	0.0	5.5	9.2	54.9	63.9
Scotland	1173	7.9	5.5	64.0	6.6	12.1	3.9	64.0	0.5	1.6	1.8	61.4	66.3
Singapore	2642	7.7	6.3	68.8	5.5	10.6	1.1	68.8	0.0	0.1	1.0	64.1	72.9
Slovenia	941	8.7	5.3	70.6	3.9	7.6	4.0	70.6	0.3	1.0	2.7	65.8	75.1
Thailand	1059	7.6	4.4	62.0	8.3	15.9	1.8	62.0	0.0	0.2	1.6	60.1	64.0
United States	1445	11.0	5.9	60.3	7.9	12.8	2.2	60.3	0.0	0.1	2.1	55.9	64.5
INTERNATIONAL AVG	.	8.1	5.6	65.0	6.2	10.2	4.9	65.0	0.2	1.7	3.0	61.5	68.6

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

Item: G08 KEY: A  
 Which of the following pictures best shows how an iceberg floats in sea water? (Earth Science)  
 Difficulty: 696

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	28.0	10.9	24.5	29.6	6.8	28.0	0.0	0.5	6.3	27.8	28.3
Austria	950	30.8	15.3	31.1	17.6	5.2	30.8	0.5	0.3	4.4	32.2	29.8
Canada	2857	27.0	14.5	22.9	29.2	6.4	27.0	0.6	1.2	4.6	23.8	29.3
Cyprus	1245	20.6	6.9	11.3	40.4	20.8	20.6	1.3	3.0	16.5	24.8	16.5
Czech Republic	1225	26.9	15.2	29.2	20.5	8.2	26.9	1.0	2.5	4.6	27.3	26.5
England	1156	23.8	14.6	25.1	29.3	7.2	23.8	0.0	1.1	6.1	23.4	24.4
Greece	1117	24.6	7.7	13.0	37.4	17.3	24.6	0.8	2.0	14.4	27.0	22.0
Hong Kong	1639	16.0	12.3	24.3	36.9	10.6	16.0	0.3	0.0	10.2	16.5	15.6
Hungary	1144	23.0	18.5	23.9	21.9	12.6	23.0	0.0	5.1	7.5	21.1	25.0
Iceland	637	19.7	13.6	23.7	28.3	14.7	19.7	0.6	6.0	8.1	22.0	17.5
Iran, Islamic Rep.	1258	22.5	17.2	9.9	24.0	26.3	22.5	8.2	3.4	14.7	21.1	24.2
Ireland	1095	30.2	13.3	18.8	31.8	5.9	30.2	0.9	0.3	4.8	32.9	27.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	23.9	17.2	49.9	6.6	2.5	23.9	0.2	0.7	1.6	23.9	23.9
Korea	1041	25.1	22.2	39.3	12.0	1.3	25.1	0.0	0.0	1.3	23.1	27.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	758	30.7	13.9	17.8	26.3	11.2	30.7	0.0	2.1	9.1	30.0	31.4
Netherlands	1053	23.2	19.9	33.5	19.9	3.5	23.2	3.2	0.0	0.3	25.9	20.9
New Zealand	930	22.5	14.7	23.9	31.2	7.7	22.5	0.0	2.2	5.5	20.2	25.1
Norway	831	20.0	14.2	17.8	29.7	18.3	20.0	0.5	5.8	11.9	18.0	21.3
Portugal	998	25.0	6.6	11.2	31.1	26.1	25.0	0.0	6.0	20.0	24.6	25.4
Scotland	1173	31.5	10.5	20.2	30.9	6.9	31.5	0.3	1.7	4.9	30.7	32.2
Singapore	2642	30.6	15.3	24.1	27.8	2.2	30.6	0.0	0.1	2.1	29.8	31.2
Slovenia	941	31.0	11.9	23.1	28.3	5.7	31.0	0.3	1.4	4.0	32.0	30.1
Thailand	1059	23.0	19.6	24.5	27.2	5.6	23.0	0.0	0.3	5.4	22.8	23.3
United States	1445	28.7	13.8	26.5	25.1	5.9	28.7	0.3	0.2	5.4	28.4	29.0
INTERNATIONAL AVG	.	25.4	14.2	23.7	26.8	10.0	25.4	0.8	1.9	7.3	25.4	25.3

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

Item: G09 KEY: D  
 Which of the following pairs could together cause a rainbow? (Physical Science)  
 Difficulty: 357

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1773	2.6	6.1	4.3	84.1	2.9	84.1	0.0	0.8	2.1	87.1	80.8
Austria	950	5.1	3.5	1.3	86.9	3.1	86.9	0.2	0.4	2.6	89.5	84.7
Canada	2857	3.3	4.3	2.1	85.6	4.8	85.6	0.1	1.4	3.3	87.9	83.9
Cyprus	1245	11.5	14.4	4.2	61.2	8.7	61.2	0.6	3.3	4.9	61.0	61.7
Czech Republic	1225	2.4	2.8	0.8	88.5	5.5	88.5	0.2	3.3	2.1	89.9	87.1
England	1156	2.2	4.2	2.5	88.2	2.9	88.2	0.0	1.2	1.7	90.4	85.9
Greece	1117	6.0	14.6	4.1	69.5	5.8	69.5	0.5	2.1	3.1	68.9	70.1
Hong Kong	1640	3.8	3.5	2.4	88.9	1.3	88.9	0.2	0.1	1.0	88.3	89.5
Hungary	1144	1.4	2.6	2.2	85.4	8.3	85.4	0.0	5.6	2.7	85.8	85.2
Iceland	638	2.3	4.4	4.7	77.9	10.8	77.9	0.6	6.2	4.0	79.5	76.3
Iran, Islamic Rep.	1258	18.7	14.5	6.3	49.5	10.9	49.5	0.9	3.8	6.2	49.9	49.1
Ireland	1095	2.2	5.2	3.4	87.4	1.7	87.4	0.3	0.3	1.2	90.3	84.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1619	9.0	4.7	2.1	82.3	2.0	82.3	0.1	0.8	1.2	82.0	82.5
Korea	1041	4.4	5.1	0.6	89.6	0.4	89.6	0.1	0.0	0.3	90.3	88.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	758	5.8	5.9	3.9	79.9	4.6	79.9	0.0	2.4	2.1	82.1	77.6
Netherlands	1053	0.5	0.9	1.3	94.8	2.5	94.8	2.3	0.0	0.2	95.9	94.0
New Zealand	930	3.4	6.1	2.6	81.6	6.3	81.6	0.0	2.4	3.9	84.7	78.0
Norway	831	2.8	4.0	3.0	80.5	9.8	80.5	0.0	6.3	3.4	83.0	78.5
Portugal	998	7.3	8.5	2.7	71.3	10.2	71.3	0.0	6.7	3.4	70.4	72.1
Scotland	1173	2.5	6.4	2.3	84.2	4.6	84.2	0.2	1.9	2.5	86.0	82.2
Singapore	2642	5.7	9.6	3.7	80.1	0.8	80.1	0.0	0.1	0.7	79.1	81.0
Slovenia	941	2.6	4.0	1.8	87.8	3.7	87.8	0.2	1.4	2.2	88.1	87.5
Thailand	1059	9.2	12.4	8.6	67.4	2.4	67.4	0.0	0.5	2.0	68.0	66.7
United States	1445	3.6	4.4	2.3	85.5	4.3	85.5	0.0	0.2	4.0	87.6	83.5
INTERNATIONAL AVG	.	4.9	6.3	3.0	80.8	4.9	80.8	0.3	2.1	2.5	81.9	79.7

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



Item: H01 KEY: C  
 What happens to water when it boils? (Physical Science)  
 Difficulty: 424

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	4.9	18.1	62.0	14.0	1.0	62.0	0.0	0.1	1.0	58.1	66.2
Austria	937	2.2	1.8	89.3	5.4	1.3	89.3	0.3	0.0	1.0	88.0	90.5
Canada	2827	9.9	15.9	62.9	9.5	1.8	62.9	0.3	0.3	1.1	62.3	63.6
Cyprus	1238	7.1	10.7	68.7	8.9	4.6	68.7	0.5	1.0	3.0	66.4	70.9
Czech Republic	1212	5.6	9.9	74.1	7.6	2.8	74.1	0.3	0.6	1.9	72.6	75.6
England	1116	5.6	16.6	61.4	14.6	1.8	61.4	0.0	0.2	1.6	57.2	65.7
Greece	1103	4.4	3.8	84.1	3.4	4.2	84.1	1.3	0.5	2.4	85.0	83.3
Hong Kong	1649	10.6	8.4	70.2	8.1	2.7	70.2	0.2	0.0	2.5	69.5	71.0
Hungary	1132	4.8	5.6	77.5	9.5	2.5	77.5	0.1	0.8	1.6	75.3	80.2
Iceland	629	5.0	14.8	61.9	15.2	3.1	61.9	0.2	1.1	1.8	59.7	64.0
Iran, Islamic Rep.	1254	10.3	5.1	68.1	7.0	9.4	68.1	3.4	0.6	5.4	69.5	66.3
Ireland	1089	7.0	16.4	60.2	15.3	1.1	60.2	0.2	0.1	0.8	60.6	59.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	7.1	10.4	70.9	11.5	0.1	70.9	0.0	0.0	0.1	67.8	73.9
Korea	1042	5.4	8.4	73.3	12.7	0.3	73.3	0.0	0.0	0.3	69.9	76.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	7.2	7.3	70.7	12.2	2.6	70.7	0.0	0.0	2.6	71.2	70.4
Netherlands	1070	2.7	7.5	75.9	13.6	0.3	75.9	0.3	0.0	0.0	73.1	79.6
New Zealand	941	8.0	23.3	50.4	16.6	1.7	50.4	0.0	0.2	1.5	49.2	51.6
Norway	824	4.9	5.0	79.5	7.3	3.2	79.5	0.3	1.5	1.4	79.3	80.1
Portugal	973	4.1	5.0	76.1	9.3	5.5	76.1	0.0	2.4	3.1	74.9	77.4
Scotland	1163	7.4	19.0	56.0	15.9	1.7	56.0	0.3	0.3	1.1	53.7	58.3
Singapore	2648	5.5	11.4	67.8	13.4	1.9	67.8	0.0	0.0	1.9	67.1	68.5
Slovenia	943	2.0	2.4	87.0	7.2	1.4	87.0	0.3	0.3	0.8	88.5	85.6
Thailand	1006	9.2	6.1	61.4	22.3	1.0	61.4	0.3	0.1	0.6	62.3	60.5
United States	1434	4.7	10.6	78.3	5.2	1.2	78.3	0.0	0.1	1.1	78.0	78.4
INTERNATIONAL AVG	.	6.1	10.2	70.3	11.1	2.4	70.3	0.3	0.4	1.6	69.1	71.6

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

Item: H02 KEY: A  
 How can washing your hands help keep you from getting sick? (Life Science)  
 Difficulty: 378

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	88.9	3.3	4.6	1.6	1.6	88.9	0.0	0.1	1.5	91.5	86.3
Austria	937	59.1	6.5	26.3	6.3	1.8	59.1	0.3	0.0	1.4	59.7	58.8
Canada	2827	80.0	8.4	6.5	3.5	1.6	80.0	0.1	0.4	1.1	80.8	78.7
Cyprus	1238	70.6	8.5	11.0	4.1	5.8	70.6	0.9	1.2	3.7	73.1	68.2
Czech Republic	1212	79.1	2.4	9.0	7.0	2.4	79.1	0.1	0.6	1.7	77.4	80.9
England	1116	88.4	3.1	5.1	2.3	1.0	88.4	0.0	0.2	0.8	91.3	85.6
Greece	1103	83.2	4.4	5.7	2.4	4.3	83.2	1.3	0.8	2.2	84.6	81.9
Hong Kong	1649	92.7	1.1	3.9	1.0	1.3	92.7	0.3	0.0	1.0	93.9	91.8
Hungary	1132	74.2	7.4	11.8	2.7	3.9	74.2	0.1	1.1	2.6	77.5	70.7
Iceland	629	68.1	14.2	7.5	6.5	3.7	68.1	0.0	1.6	2.1	67.9	68.3
Iran, Islamic Rep.	1254	56.5	17.4	7.6	6.8	11.6	56.5	3.7	0.6	7.2	59.3	53.2
Ireland	1089	85.9	4.4	5.2	3.6	0.9	85.9	0.3	0.1	0.5	90.1	82.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	96.7	1.0	1.6	0.5	0.1	96.7	0.0	0.1	0.1	97.4	96.0
Korea	1042	96.4	1.0	1.8	0.4	0.4	96.4	0.0	0.0	0.4	96.6	96.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	78.4	5.2	6.5	7.2	2.8	78.4	0.0	0.8	2.0	82.2	74.6
Netherlands	1070	68.5	10.0	17.1	4.1	0.4	68.5	0.4	0.0	0.1	66.4	70.9
New Zealand	941	85.4	3.7	5.8	3.4	1.7	85.4	0.0	0.2	1.5	88.2	82.4
Norway	824	68.2	9.8	6.1	10.8	5.2	68.2	0.1	1.6	3.4	68.8	67.9
Portugal	973	69.4	9.9	7.3	6.7	6.7	69.4	0.0	3.3	3.4	69.8	68.9
Scotland	1163	89.3	3.8	4.0	1.7	1.1	89.3	0.1	0.3	0.6	90.5	88.1
Singapore	2648	82.8	3.7	6.3	5.3	1.8	82.8	0.0	0.0	1.7	85.1	80.8
Slovenia	943	80.2	8.0	5.9	3.9	2.0	80.2	0.3	0.5	1.2	80.6	79.7
Thailand	1006	59.2	12.1	9.6	18.1	1.0	59.2	0.0	0.1	0.8	59.9	58.5
United States	1434	92.0	2.3	2.7	1.4	1.6	92.0	0.0	0.2	1.4	94.8	89.5
INTERNATIONAL AVG	.	78.9	6.3	7.5	4.6	2.7	78.9	0.3	0.6	1.8	80.3	77.5

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

Item: H03  
 Shown diagram with river, draw an arrow showing direction of water flow. (Earth Science)  
 Difficulty: 625

COUNTRY	N	10	19	70	71	79	90	99	V1	NOT	1.GIRL	2.BOY	
										REACH			% Right
										ED	OMIT		
Australia	1764	33.8	4.4	17.6	28.9	2.8	1.7	10.7	38.2	0.2	10.5	35.3	41.1
Austria	937	34.7	5.1	10.3	21.3	3.0	4.2	21.3	39.9	0.0	21.3	37.6	41.9
Canada	2827	19.4	7.0	14.1	22.7	17.5	6.0	13.3	26.4	0.5	12.8	23.8	29.5
Cyprus	1235	24.8	2.6	7.2	12.0	7.2	1.7	44.5	27.4	1.2	43.3	27.8	27.3
Czech Republic	1210	34.6	9.9	8.2	11.0	11.9	2.9	21.4	44.5	1.0	20.5	37.6	51.6
England	1116	25.9	5.7	14.0	29.9	8.0	6.4	10.0	31.6	0.2	9.8	27.9	35.3
Greece	1103	22.5	8.5	11.4	8.7	9.1	2.9	37.0	31.0	0.9	36.1	28.4	33.2
Hong Kong	1631	24.0	5.0	12.7	17.8	10.5	3.1	26.9	29.0	0.0	26.9	24.2	33.0
Hungary	1132	20.7	3.7	7.0	10.0	19.1	8.3	31.2	24.4	1.4	29.7	18.9	30.3
Iceland	629	22.6	20.3	6.6	14.1	14.2	1.3	21.0	42.9	1.6	19.4	41.8	44.0
Iran, Islamic Rep.	1254	1.8	4.6	6.2	10.9	8.4	9.8	58.3	6.4	0.9	57.4	6.6	6.2
Ireland	1089	21.6	7.0	9.5	29.7	10.5	7.9	13.7	28.6	0.1	13.6	24.9	31.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	30.5	2.6	11.5	36.0	3.1	5.3	11.1	33.1	0.1	11.0	35.0	31.1
Korea	1042	50.3	8.0	12.0	11.1	10.4	6.6	1.5	58.3	0.0	1.5	55.9	60.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	775	46.6	3.2	9.0	13.6	6.5	2.5	18.5	49.9	0.8	17.8	47.5	52.4
Netherlands	1070	18.3	12.0	14.7	28.7	16.8	4.5	5.1	30.3	0.0	5.1	25.7	34.1
New Zealand	941	21.7	3.8	12.2	29.8	15.7	1.6	15.1	25.5	0.3	14.8	23.5	27.6
Norway	823	43.1	1.9	11.5	18.1	8.6	1.5	15.4	45.0	2.3	13.2	41.9	47.3
Portugal	973	24.3	5.1	14.6	20.8	4.9	2.3	28.0	29.4	3.6	24.4	27.0	31.8
Scotland	1163	11.5	18.0	12.8	33.4	9.0	2.7	12.4	29.5	0.3	12.1	27.2	32.1
Singapore	2648	22.0	0.2	22.6	33.2	5.5	4.1	12.3	22.2	0.0	12.3	23.6	20.9
Slovenia	943	30.8	11.4	10.1	13.7	12.3	2.4	19.2	42.3	0.6	18.6	38.9	45.5
Thailand	1006	5.5	20.3	12.0	12.4	9.1	0.3	40.3	25.8	0.3	40.1	25.9	25.8
United States	1434	28.6	0.1	20.9	25.9	4.5	2.8	17.1	28.8	0.2	16.9	25.9	31.2
INTERNATIONAL AVG	.	25.8	7.1	12.0	20.6	9.5	3.9	21.1	32.9	0.7	20.4	30.5	35.2

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: H04 KEY: A  
 Which of the following will most likely affect your adult height? (Life Science)  
 Difficulty: 610

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1764	38.0	12.7	5.3	41.1	2.8	38.0	0.0	0.5	2.4	40.8	35.1
Austria	937	51.6	11.8	4.0	28.7	3.8	51.6	0.4	0.2	3.3	53.2	50.0
Canada	2827	39.6	10.2	5.7	42.3	2.2	39.6	0.1	0.6	1.5	39.5	40.2
Cyprus	1238	32.4	17.8	6.6	36.0	7.2	32.4	0.8	1.4	5.0	33.4	31.8
Czech Republic	1212	47.7	6.5	3.2	37.7	4.9	47.7	1.1	1.4	2.5	47.2	48.2
England	1116	42.8	9.6	4.5	40.3	2.7	42.8	0.0	0.4	2.4	44.2	41.4
Greece	1103	51.8	12.6	3.4	25.0	7.2	51.8	1.4	1.0	4.8	51.2	52.3
Hong Kong	1639	33.6	6.1	5.8	53.5	1.1	33.6	0.3	0.0	0.8	30.9	35.8
Hungary	1132	42.2	5.5	2.1	44.4	5.8	42.2	0.1	1.8	3.9	42.1	42.5
Iceland	629	48.2	9.1	5.2	30.3	7.2	48.2	0.2	3.2	3.8	54.2	42.5
Iran, Islamic Rep.	1254	38.7	11.8	7.2	31.7	10.6	38.7	2.1	1.0	7.5	37.2	40.4
Ireland	1089	32.4	11.0	4.3	50.1	2.2	32.4	0.7	0.1	1.4	31.7	32.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1626	31.2	9.0	2.4	56.9	0.5	31.2	0.0	0.1	0.5	31.3	31.1
Korea	1042	16.8	13.3	6.2	63.4	0.3	16.8	0.0	0.0	0.3	16.5	17.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	776	42.8	10.4	5.2	34.8	6.8	42.8	0.0	0.8	5.9	45.2	40.5
Netherlands	1070	59.2	8.8	2.4	28.2	1.4	59.2	1.4	0.0	0.0	62.8	54.5
New Zealand	941	38.2	13.0	6.4	39.6	2.8	38.2	0.0	0.6	2.2	41.5	34.7
Norway	823	58.1	8.9	4.0	21.9	7.2	58.1	0.1	2.6	4.5	57.2	58.9
Portugal	973	53.6	9.8	4.8	23.7	8.2	53.6	0.0	3.9	4.3	53.2	53.9
Scotland	1163	39.2	11.4	5.7	41.7	2.0	39.2	0.1	0.4	1.4	42.0	36.2
Singapore	2648	39.6	10.8	11.2	36.5	1.9	39.6	0.0	0.0	1.9	40.5	38.8
Slovenia	942	56.9	9.6	3.4	25.5	4.6	56.9	0.8	0.7	3.0	56.1	57.6
Thailand	1006	30.6	13.9	8.1	45.6	1.8	30.6	0.0	0.4	1.4	28.7	32.6
United States	1434	36.3	9.9	3.6	48.8	1.5	36.3	0.0	0.2	1.3	38.1	34.7
INTERNATIONAL AVG	.	41.7	10.6	5.0	38.6	4.0	41.7	0.4	0.9	2.7	42.4	41.0

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

Item: N01 KEY: B  
 Given temperatures and precipitation (table) in four towns, where could it have snowed? (Earth Science)  
 Difficulty: 632

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	10.4	36.2	21.5	24.3	7.6	36.2	0.0	0.3	7.3	34.5	38.0
Austria	317	5.2	43.5	17.5	20.8	13.0	43.5	5.3	1.1	6.7	49.6	36.9
Canada	937	9.2	30.3	33.1	21.4	6.0	30.3	3.4	0.0	2.6	29.9	28.4
Cyprus	373	14.0	25.0	35.7	15.4	9.9	25.0	3.4	0.9	5.6	26.2	23.9
Czech Republic	411	3.5	43.9	18.8	22.5	11.3	43.9	5.9	0.7	4.7	41.7	46.4
England	380	12.2	27.1	35.6	13.7	11.4	27.1	0.0	0.4	10.9	20.2	33.9
Greece	363	13.6	16.6	28.5	23.2	18.1	16.6	3.3	0.0	14.8	14.0	18.7
Hong Kong	549	6.5	49.4	14.5	22.0	7.6	49.4	6.2	0.0	1.4	47.9	51.1
Hungary	375	10.7	30.7	22.6	22.5	13.5	30.7	0.0	1.4	12.0	33.0	30.8
Iceland	208	16.5	24.8	34.5	11.4	12.8	24.8	1.3	3.1	8.5	21.1	29.3
Iran, Islamic Rep.	425	13.3	20.8	32.9	15.1	18.0	20.8	3.1	1.2	13.6	18.1	23.9
Ireland	360	11.1	23.6	49.6	10.4	5.3	23.6	3.2	0.0	2.1	21.2	25.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	2.0	49.0	39.7	7.6	1.8	49.0	1.0	0.2	0.5	44.8	52.9
Korea	356	2.5	45.9	38.7	12.6	0.2	45.9	0.0	0.0	0.2	44.4	47.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	12.8	32.3	31.1	13.7	10.1	32.3	0.0	1.6	8.5	36.5	28.2
Netherlands	337	10.3	32.0	31.3	21.4	4.9	32.0	4.6	0.3	0.0	31.2	31.8
New Zealand	321	15.9	23.5	35.5	17.8	7.2	23.5	0.0	1.4	5.8	21.1	25.7
Norway	278	11.5	32.5	22.8	17.1	16.1	32.5	2.5	1.5	12.1	30.5	34.8
Portugal	338	12.3	20.9	36.0	16.9	13.8	20.9	0.0	2.3	11.5	21.1	20.7
Scotland	388	8.4	24.3	45.2	12.9	9.1	24.3	6.3	0.0	2.8	21.7	26.6
Singapore	865	8.5	30.5	46.1	13.7	1.2	30.5	0.0	0.2	1.0	30.4	30.7
Slovenia	320	9.4	35.4	24.7	21.6	8.9	35.4	3.7	0.5	4.7	33.0	38.0
Thailand	399	15.0	24.1	44.4	14.3	2.2	24.1	0.0	0.0	2.2	21.8	26.3
United States	470	5.4	37.4	33.1	18.3	5.8	37.4	2.4	0.1	3.3	34.9	39.9
INTERNATIONAL AVG	.	10.0	31.7	32.2	17.1	9.0	31.7	2.3	0.7	6.0	30.4	32.9

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

Item: N02 KEY: D  
 Which of the following refers only to living things? (Life Science)  
 Difficulty: 475

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	4.5	4.3	14.9	65.6	6.3	4.2	65.6	0.0	0.3	3.9	68.8	62.1
Austria	317	3.4	3.2	10.6	66.4	6.6	9.9	66.4	0.7	1.2	7.9	72.3	60.3
Canada	937	5.2	4.6	20.2	59.7	6.3	4.0	59.7	1.5	0.1	2.5	56.0	65.3
Cyprus	373	8.7	7.2	23.9	46.0	5.3	8.8	46.0	1.7	1.2	6.0	51.4	40.9
Czech Republic	411	8.3	2.4	11.0	71.1	3.6	3.7	71.1	1.1	0.9	1.6	65.5	77.2
England	380	3.1	4.2	11.5	70.8	7.5	2.8	70.8	0.0	0.4	2.4	72.8	68.8
Greece	363	8.9	7.7	19.9	46.0	6.1	11.3	46.0	1.2	0.2	10.0	37.2	53.4
Hong Kong	549	3.1	1.4	13.5	73.3	6.3	2.4	73.3	1.4	0.0	1.0	71.3	75.3
Hungary	375	1.3	4.2	22.3	56.3	6.5	9.4	56.3	0.0	1.7	7.7	62.2	51.4
Iceland	208	8.7	9.5	12.8	54.9	5.9	8.1	54.9	0.7	3.3	4.1	53.3	56.9
Iran, Islamic Rep.	425	10.8	10.2	21.1	30.9	13.0	13.9	30.9	1.3	1.3	11.3	29.9	32.0
Ireland	360	4.7	6.6	8.6	69.1	7.9	3.0	69.1	1.7	0.5	0.9	70.2	68.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	1.8	1.9	7.3	85.7	2.4	1.0	85.7	0.0	0.2	0.7	87.5	84.0
Korea	356	4.7	1.7	7.5	80.6	5.2	0.3	80.6	0.0	0.0	0.3	77.5	83.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	9.5	4.3	17.6	57.4	5.6	5.5	57.4	0.0	1.6	3.9	60.1	54.8
Netherlands	337	3.5	1.8	8.1	80.3	4.0	2.3	80.3	1.8	0.3	0.2	80.1	80.1
New Zealand	321	8.2	5.3	19.3	55.7	7.3	4.1	55.7	0.0	1.4	2.8	57.5	54.1
Norway	278	8.6	4.5	21.5	44.3	10.8	10.4	44.3	1.9	2.2	6.2	44.0	44.4
Portugal	338	4.2	4.7	15.1	59.5	7.8	8.7	59.5	0.0	2.3	6.4	60.6	58.3
Scotland	388	3.0	5.3	10.3	71.8	6.3	3.3	71.8	0.0	0.0	3.3	72.1	71.7
Singapore	865	6.3	5.8	6.1	75.6	5.7	0.5	75.6	0.0	0.2	0.3	77.9	73.6
Slovenia	320	4.0	6.0	13.9	68.2	2.6	5.2	68.2	1.4	0.5	3.3	69.7	66.6
Thailand	399	6.4	5.5	15.4	64.5	6.1	2.2	64.5	0.0	0.0	2.2	64.9	64.1
United States	470	6.2	4.3	11.9	67.3	6.7	3.6	67.3	0.0	0.1	3.5	67.0	67.6
INTERNATIONAL AVG	.	5.7	4.9	14.4	63.4	6.3	5.4	63.4	0.7	0.8	3.8	63.7	63.1

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

Item: N03 KEY: B  
 Which of the following Celsius measures is closest to your temperature when you are not sick? (Life Science)  
 Difficulty: 620

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	49.5	27.6	11.9	6.9	4.2	27.6	0.0	0.5	3.7	27.7	27.4
Austria	317	33.7	48.7	4.7	3.0	9.9	48.7	0.0	1.2	8.7	44.0	53.5
Canada	937	38.7	34.8	15.6	8.2	2.7	34.8	0.2	0.2	2.3	31.9	39.8
Cyprus	373	35.1	31.0	10.0	11.9	12.0	31.0	0.9	1.5	9.6	31.4	30.2
Czech Republic	411	42.7	51.3	0.8	1.7	3.6	51.3	0.5	0.9	2.1	51.2	51.4
England	380	37.4	29.7	21.7	7.3	3.9	29.7	0.0	0.4	3.4	28.6	30.9
Greece	363	33.3	38.7	6.3	8.9	12.7	38.7	0.3	0.2	12.2	30.7	45.4
Hong Kong	549	19.5	48.1	25.1	5.9	1.3	48.1	0.2	0.0	1.2	40.7	54.3
Hungary	375	54.9	32.7	4.3	3.3	4.8	32.7	0.0	1.7	3.1	31.2	33.8
Iceland	208	35.2	38.1	12.2	5.7	8.8	38.1	0.0	3.3	5.4	32.5	44.8
Iran, Islamic Rep.	425	30.7	16.3	17.6	18.2	17.3	16.3	0.8	1.5	15.0	15.9	16.8
Ireland	360	34.1	19.9	31.4	11.6	3.1	19.9	0.5	0.5	2.0	16.9	22.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	39.8	55.2	2.6	1.2	1.3	55.2	0.0	0.2	1.1	62.0	48.6
Korea	356	49.2	42.7	5.2	2.9	0.0	42.7	0.0	0.0	0.0	38.2	46.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	38.7	44.3	3.9	7.3	5.9	44.3	0.0	1.6	4.3	45.5	43.1
Netherlands	337	41.8	45.1	6.2	4.0	2.8	45.1	2.4	0.3	0.2	41.6	48.0
New Zealand	321	37.6	24.1	22.6	9.8	5.9	24.1	0.0	1.4	4.5	25.8	22.7
Norway	277	34.3	42.9	6.0	3.4	13.5	42.9	0.8	4.1	8.6	31.6	50.8
Portugal	338	37.2	31.6	9.2	10.4	11.5	31.6	0.0	2.3	9.2	25.9	37.5
Scotland	388	39.4	23.8	20.4	12.5	4.0	23.8	0.2	0.0	3.8	19.7	27.9
Singapore	865	43.0	28.1	14.3	14.0	0.7	28.1	0.0	0.2	0.5	24.1	32.0
Slovenia	320	41.0	46.1	5.3	4.7	2.9	46.1	0.0	0.5	2.4	46.1	46.0
Thailand	399	35.8	30.7	16.9	12.5	4.0	30.7	0.0	0.0	4.0	34.0	27.6
United States	470	32.1	45.9	10.6	7.1	4.3	45.9	0.0	0.1	4.3	44.0	47.7
INTERNATIONAL AVG	.	38.1	36.6	11.9	7.6	5.9	36.6	0.3	0.9	4.6	34.2	38.7

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

Item: N04 KEY: D  
 Shown picture of block of wood floating in fresh water, select picture of block in salt water. (Physical Science)  
 Difficulty: 665

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	32.1	17.4	14.2	31.3	5.1	31.3	0.0	0.6	4.5	24.7	38.7
Austria	317	22.5	7.0	17.9	40.8	11.7	40.8	0.4	1.2	10.1	39.0	44.0
Canada	937	40.3	13.7	13.9	29.0	3.0	29.0	0.0	0.2	2.8	22.9	35.1
Cyprus	373	31.1	11.5	13.8	26.9	16.8	26.9	0.3	2.5	14.0	22.9	31.0
Czech Republic	411	29.4	6.5	16.6	32.5	15.0	32.5	1.5	0.9	12.5	31.2	34.0
England	380	39.1	13.5	13.1	28.3	6.0	28.3	0.0	0.4	5.5	24.0	32.6
Greece	363	29.1	10.1	10.1	28.5	22.2	28.5	0.4	0.5	21.2	26.8	29.9
Hong Kong	549	26.2	12.4	23.4	33.3	4.7	33.3	0.2	0.7	3.8	33.3	33.4
Hungary	375	42.3	9.6	7.4	31.3	9.5	31.3	0.0	2.0	7.5	29.3	32.7
Iceland	208	38.2	8.1	10.0	29.7	14.0	29.7	0.7	3.8	9.6	28.9	30.7
Iran, Islamic Rep.	425	27.8	12.9	11.3	18.5	29.6	18.5	2.2	2.1	25.3	19.5	17.2
Ireland	360	38.9	11.6	15.3	28.7	5.6	28.7	2.2	0.5	2.9	21.2	35.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	22.8	24.5	24.0	27.2	1.4	27.2	0.0	0.4	1.0	23.6	30.7
Korea	356	22.9	16.3	15.0	45.8	0.0	45.8	0.0	0.0	0.0	42.2	48.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	34.7	9.6	20.5	26.2	9.1	26.2	0.0	1.6	7.5	19.9	32.4
Netherlands	337	37.1	11.9	15.5	24.1	11.4	24.1	11.0	0.3	0.2	20.8	27.3
New Zealand	321	38.6	12.7	14.4	27.6	6.8	27.6	0.0	1.4	5.4	24.8	30.1
Norway	277	27.9	7.7	10.7	35.6	18.0	35.6	1.5	4.3	12.2	34.3	36.1
Portugal	338	35.2	10.8	15.1	15.3	23.7	15.3	0.0	3.4	20.3	16.3	14.2
Scotland	388	44.0	10.0	12.6	29.5	3.9	29.5	0.0	0.3	3.7	27.4	31.2
Singapore	865	30.3	13.4	20.8	31.9	3.5	31.9	0.0	0.3	3.2	28.0	35.7
Slovenia	320	30.6	8.0	19.3	33.4	8.8	33.4	1.1	0.7	6.9	25.8	41.6
Thailand	399	25.4	15.7	21.8	32.0	5.2	32.0	0.0	0.0	5.2	27.1	36.6
United States	470	39.1	16.1	15.1	24.8	4.9	24.8	0.0	0.1	4.8	23.4	26.2
INTERNATIONAL AVG	.	32.7	12.1	15.5	29.7	10.0	29.7	0.9	1.2	7.9	26.6	32.8

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



Item: N05 KEY: E  
 Shown drawing of a bird's webbed foot, where would you be most likely to find such a bird? (Life Science)  
 Difficulty: 468

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	17.8	4.0	3.8	3.1	68.7	2.6	68.7	0.0	0.6	2.1	67.6	70.0
Austria	317	8.6	3.8	4.6	4.8	75.6	2.5	75.6	0.1	2.2	0.2	71.0	81.4
Canada	937	15.2	10.2	5.6	3.5	63.8	1.6	63.8	0.5	0.4	0.7	63.9	63.7
Cyprus	373	18.0	10.6	15.8	3.9	46.9	4.8	46.9	1.1	2.7	1.0	43.1	50.4
Czech Republic	411	6.9	9.7	6.9	2.2	70.7	3.5	70.7	1.2	1.6	0.8	66.4	75.5
England	380	17.4	4.1	3.6	4.7	68.5	1.8	68.5	0.0	0.6	1.1	67.5	69.5
Greece	363	15.7	4.4	6.4	0.6	71.4	1.6	71.4	0.0	0.5	1.0	65.6	76.3
Hong Kong	548	18.5	13.1	8.1	3.1	54.6	2.6	54.6	1.3	0.7	0.6	51.5	57.3
Hungary	375	10.8	13.8	7.6	4.6	56.5	6.7	56.5	0.0	2.6	4.0	58.8	55.3
Iceland	208	11.7	1.8	6.0	5.8	69.6	5.2	69.6	0.2	3.8	1.2	69.9	69.2
Iran, Islamic Rep.	425	22.2	4.1	7.8	10.7	49.0	6.3	49.0	1.6	2.4	2.3	48.2	49.9
Ireland	360	16.2	2.8	5.5	4.7	69.9	0.9	69.9	0.0	0.5	0.5	74.4	65.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	33.0	3.6	5.1	3.1	54.5	0.7	54.5	0.0	0.6	0.2	51.8	57.1
Korea	356	19.2	5.5	2.1	4.6	68.6	0.0	68.6	0.0	0.0	0.0	61.1	74.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	256	7.1	6.0	7.1	3.8	73.3	2.8	73.3	0.0	1.6	1.2	72.5	74.1
Netherlands	337	9.6	8.5	2.3	3.1	74.9	1.6	74.9	1.1	0.3	0.2	72.6	77.1
New Zealand	321	29.5	2.2	4.4	2.4	59.7	1.8	59.7	0.0	1.4	0.5	58.7	60.6
Norway	277	8.9	4.2	5.9	6.0	66.0	9.0	66.0	0.0	5.9	3.1	65.9	66.4
Portugal	338	16.7	6.9	21.7	4.3	44.0	6.4	44.0	0.0	4.2	2.2	42.5	45.6
Scotland	388	20.7	5.9	5.5	1.7	65.5	0.6	65.5	0.0	0.3	0.3	69.4	62.5
Singapore	865	25.5	12.1	7.0	7.9	46.7	0.8	46.7	0.0	0.3	0.5	44.6	48.9
Slovenia	320	8.2	2.0	4.2	16.9	65.6	3.0	65.6	0.0	1.0	2.1	59.1	72.7
Thailand	399	27.4	12.2	10.0	15.7	30.9	3.8	30.9	0.0	0.0	3.8	33.9	28.1
United States	470	23.3	9.1	5.5	3.2	57.1	1.8	57.1	0.0	0.1	1.6	60.9	53.4
INTERNATIONAL AVG	.	17.0	6.7	6.8	5.2	61.3	3.0	61.3	0.3	1.4	1.3	60.0	62.7

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

Item: N06 KEY: D  
 Where does a baby chick get its food while inside an egg? (Life Science)  
 Difficulty: 625

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	20.0	19.2	8.6	37.0	12.0	3.1	37.0	0.0	1.4	1.7	39.2	34.6
Austria	317	13.4	27.5	3.7	41.3	9.0	5.1	41.3	1.3	2.2	1.5	46.0	37.3
Canada	937	25.6	17.3	11.7	31.6	9.6	4.2	31.6	0.0	0.4	3.8	29.0	36.7
Cyprus	373	38.1	13.7	14.3	16.9	9.3	7.6	16.9	0.4	2.7	4.5	17.7	16.2
Czech Republic	411	34.9	20.9	9.1	23.1	7.1	4.9	23.1	0.7	1.6	2.6	23.7	22.4
England	380	25.6	16.0	10.6	32.0	12.6	3.2	32.0	0.0	0.6	2.6	30.2	33.8
Greece	363	37.2	8.1	3.5	38.4	9.4	3.5	38.4	0.2	0.5	2.8	31.4	44.2
Hong Kong	549	32.1	21.4	10.0	28.7	4.5	3.2	28.7	0.8	0.7	1.8	23.3	33.3
Hungary	375	21.7	19.4	9.3	37.9	5.5	6.1	37.9	0.0	2.9	3.1	35.9	40.5
Iceland	208	26.7	8.7	8.9	38.8	9.0	7.8	38.8	0.0	4.0	3.7	39.8	37.6
Iran, Islamic Rep.	425	32.9	19.2	5.5	24.4	7.1	11.0	24.4	2.4	2.6	5.9	23.1	25.8
Ireland	360	18.4	18.4	10.2	26.2	24.8	2.0	26.2	0.0	0.5	1.6	32.4	20.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	18.4	3.1	7.8	58.5	11.2	1.0	58.5	0.0	0.6	0.4	59.9	57.3
Korea	356	7.6	2.6	7.1	71.1	11.7	0.0	71.1	0.0	0.0	0.0	68.2	73.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	13.9	25.1	4.0	37.9	12.3	6.9	37.9	0.0	1.9	4.9	41.6	34.2
Netherlands	337	21.4	12.6	6.2	38.7	19.7	1.5	38.7	1.2	0.3	0.0	29.8	47.2
New Zealand	321	23.5	11.3	8.4	38.9	14.8	3.2	38.9	0.0	1.4	1.8	31.2	45.8
Norway	277	13.4	21.3	11.2	31.4	11.0	11.6	31.4	0.6	6.9	4.2	36.9	26.6
Portugal	338	40.1	13.2	5.0	24.7	7.4	9.5	24.7	0.0	4.5	5.1	23.5	26.1
Scotland	388	24.4	16.1	9.5	37.8	9.0	3.3	37.8	0.0	0.3	3.0	38.0	37.5
Singapore	865	29.0	23.9	12.9	27.5	5.6	1.1	27.5	0.0	0.3	0.8	27.6	27.1
Slovenia	320	26.1	11.6	5.2	41.0	11.9	4.2	41.0	0.3	1.4	2.4	36.5	45.9
Thailand	399	21.9	21.1	9.1	25.9	16.2	5.8	25.9	0.0	0.0	5.8	27.5	24.4
United States	470	18.6	17.8	14.9	37.1	7.6	3.9	37.1	0.0	0.1	3.8	38.0	36.2
INTERNATIONAL AVG	.	24.4	16.2	8.6	35.3	10.8	4.7	35.3	0.3	1.6	2.8	34.6	36.0

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

Item: N07 KEY: A  
 Where does Keisha get the energy to push her bicycle uphill? (Physical Science)  
 Difficulty: 571

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	54.8	29.6	4.7	8.5	2.5	54.8	0.0	1.4	1.0	58.3	51.0
Austria	317	41.9	26.8	10.8	15.4	5.0	41.9	0.4	2.7	1.9	43.0	41.3
Canada	937	53.0	26.9	6.4	12.3	1.3	53.0	0.0	0.4	0.9	52.3	49.4
Cyprus	373	28.9	34.8	14.9	15.9	5.4	28.9	0.0	3.0	2.4	33.5	24.3
Czech Republic	411	51.5	27.3	8.4	7.9	4.8	51.5	1.5	1.7	1.6	51.6	51.5
England	380	53.2	30.2	6.1	8.3	2.2	53.2	0.0	0.6	1.6	54.8	51.6
Greece	363	30.8	42.6	11.0	11.3	4.3	30.8	0.5	0.5	3.2	32.5	29.5
Hong Kong	549	51.5	10.8	9.5	25.1	3.1	51.5	1.6	0.7	0.8	52.9	50.5
Hungary	375	27.7	46.3	8.0	10.9	7.1	27.7	0.0	3.4	3.7	30.6	24.0
Iceland	208	59.7	18.7	3.3	9.0	9.2	59.7	0.0	6.0	3.1	65.4	52.9
Iran, Islamic Rep.	425	27.0	44.2	10.5	11.7	6.7	27.0	1.7	2.6	2.4	27.9	25.9
Ireland	360	44.5	34.9	8.7	10.7	1.3	44.5	0.3	0.7	0.3	44.4	44.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	55.9	17.9	11.7	13.3	1.3	55.9	0.0	0.8	0.4	58.1	53.9
Korea	356	61.7	16.3	10.7	11.3	0.0	61.7	0.0	0.0	0.0	54.9	67.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	41.4	34.9	10.6	7.6	5.5	41.4	0.0	3.0	2.5	39.5	43.2
Netherlands	337	52.7	15.6	12.2	18.1	1.4	52.7	1.1	0.3	0.0	51.9	52.7
New Zealand	321	41.9	37.7	8.7	8.6	3.1	41.9	0.0	2.3	0.8	40.7	43.1
Norway	277	40.5	23.3	11.5	13.3	11.3	40.5	0.0	7.6	3.7	44.0	38.3
Portugal	338	45.9	28.4	7.5	9.3	8.9	45.9	0.0	5.2	3.7	48.9	42.8
Scotland	388	45.3	38.8	5.4	9.9	0.6	45.3	0.2	0.3	0.1	43.4	47.0
Singapore	865	48.0	22.8	11.7	17.0	0.6	48.0	0.0	0.3	0.3	51.0	45.3
Slovenia	320	44.5	33.2	5.8	12.9	3.6	44.5	0.9	1.4	1.2	46.6	42.3
Thailand	399	20.1	41.7	15.7	18.0	4.4	20.1	0.0	0.0	4.4	18.6	21.6
United States	470	54.4	23.0	6.2	14.3	2.2	54.4	0.1	0.5	1.6	56.8	52.0
INTERNATIONAL AVG	.	44.9	29.4	9.2	12.5	4.0	44.9	0.3	1.9	1.7	45.9	43.6

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

Item: N08 KEY: C

What is a powder made up of both white specks and black specks is likely to be? (mixture) (Physical Science)

Difficulty: 534

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	7.0	6.6	70.6	9.4	6.4	70.6	0.0	1.5	4.9	68.1	73.4
Austria	317	8.3	4.5	61.4	16.6	9.1	61.4	0.0	3.2	5.9	61.5	61.8
Canada	937	9.9	9.2	63.9	11.6	5.4	63.9	0.0	0.4	4.9	62.0	64.6
Cyprus	373	10.0	18.1	46.2	13.9	11.8	46.2	0.0	3.9	7.9	48.7	44.0
Czech Republic	411	14.7	16.9	46.3	13.2	8.9	46.3	0.3	2.2	6.4	45.5	47.2
England	380	8.5	11.0	65.5	9.7	5.3	65.5	0.0	0.6	4.7	63.7	67.4
Greece	363	13.0	20.1	38.7	13.1	15.2	38.7	0.7	0.8	13.7	38.9	38.5
Hong Kong	549	15.8	15.7	37.7	25.7	5.0	37.7	0.7	0.7	3.6	32.9	41.6
Hungary	375	10.9	10.9	62.4	5.6	10.3	62.4	0.0	4.3	5.9	66.1	57.6
Iceland	208	17.9	9.7	27.9	31.1	13.4	27.9	0.0	7.4	6.0	26.1	30.0
Iran, Islamic Rep.	425	16.5	20.1	30.4	18.0	15.0	30.4	1.4	2.9	10.6	32.7	27.7
Ireland	360	5.4	12.8	65.3	13.4	3.1	65.3	0.0	0.7	2.4	67.3	63.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	17.1	22.3	44.2	13.7	2.7	44.2	0.1	1.0	1.6	46.2	42.3
Korea	356	27.6	15.2	41.8	15.1	0.3	41.8	0.0	0.0	0.3	42.7	41.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	24.2	6.2	51.5	9.9	8.2	51.5	0.0	3.0	5.2	48.7	54.3
Netherlands	337	11.5	7.7	69.1	9.1	2.7	69.1	2.2	0.3	0.2	68.6	69.1
New Zealand	321	8.7	7.2	64.5	13.1	6.5	64.5	0.0	2.3	4.2	62.7	66.1
Norway	277	12.0	9.9	41.3	21.5	15.4	41.3	0.0	8.5	6.9	45.7	39.0
Portugal	338	13.9	10.5	48.6	13.7	13.4	48.6	0.0	5.5	7.9	48.2	49.0
Scotland	388	6.8	9.6	69.0	11.3	3.2	69.0	0.0	0.3	3.0	69.3	68.4
Singapore	865	10.0	12.7	64.7	11.2	1.5	64.7	0.0	0.3	1.1	65.2	64.0
Slovenia	320	16.6	13.1	45.3	15.3	9.7	45.3	0.0	1.4	8.2	47.2	43.3
Thailand	399	29.1	20.3	20.9	23.4	6.2	20.9	0.0	0.0	6.2	20.1	21.7
United States	470	10.7	10.8	62.4	10.5	5.6	62.4	0.3	0.5	4.8	66.0	58.7
INTERNATIONAL AVG	.	13.6	12.5	51.6	14.5	7.7	51.6	0.2	2.2	5.3	51.8	51.4

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: N09 KEY: A  
 Shown diagrams of various boxes on scales, which has the least mass? (Physical Science)  
 Difficulty: 529

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	596	55.5	20.4	16.1	5.4	2.6	55.5	0.0	1.5	1.1	55.6	55.4
Austria	317	29.8	27.5	27.6	8.8	6.3	29.8	0.1	4.7	1.5	23.7	36.4
Canada	937	58.3	17.9	20.4	2.3	1.1	58.3	0.0	0.4	0.6	55.3	62.5
Cyprus	373	38.8	18.2	30.6	2.4	9.9	38.8	2.0	4.6	3.3	36.4	41.4
Czech Republic	411	53.6	10.0	26.9	4.9	4.6	53.6	1.3	2.6	0.8	52.2	55.1
England	380	55.9	16.5	23.4	3.2	1.0	55.9	0.0	0.6	0.3	53.2	58.7
Greece	362	36.2	20.8	24.9	10.2	7.9	36.2	0.9	1.1	5.9	28.6	42.6
Hong Kong	549	74.7	5.7	16.1	1.0	2.5	74.7	0.5	0.7	1.3	72.6	76.5
Hungary	375	52.9	9.7	23.9	6.1	7.4	52.9	0.0	4.8	2.6	48.1	60.5
Iceland	208	58.8	12.3	15.9	3.6	9.4	58.8	0.0	8.6	0.8	58.5	59.1
Iran, Islamic Rep.	425	27.0	20.8	25.8	17.4	9.0	27.0	2.1	4.2	2.6	28.4	25.3
Ireland	360	46.5	12.7	31.5	8.1	1.2	46.5	0.0	0.7	0.5	48.3	44.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	528	77.6	5.8	13.2	2.3	1.1	77.6	0.0	1.0	0.2	76.5	78.5
Korea	356	76.7	9.7	12.2	1.3	0.0	76.7	0.0	0.0	0.0	73.8	79.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	257	40.1	11.5	33.5	8.6	6.3	40.1	0.0	3.4	2.9	42.1	38.2
Netherlands	337	63.1	13.2	19.3	2.5	2.0	63.1	1.6	0.3	0.2	58.8	67.0
New Zealand	321	56.3	10.3	27.3	3.0	3.1	56.3	0.0	2.6	0.5	55.3	57.1
Norway	277	52.6	5.8	27.7	0.8	13.2	52.6	0.2	9.0	4.1	53.4	52.3
Portugal	338	42.4	10.2	31.8	7.2	8.4	42.4	0.0	6.3	2.1	42.1	42.7
Scotland	388	55.5	16.4	24.5	2.2	1.4	55.5	0.0	0.6	0.8	51.0	59.9
Singapore	865	63.1	12.4	19.9	3.6	1.0	63.1	0.0	0.3	0.7	66.1	60.5
Slovenia	320	48.6	10.7	28.2	9.3	3.1	48.6	0.3	1.4	1.4	43.6	54.1
Thailand	399	43.3	18.7	25.1	8.0	4.9	43.3	0.0	0.0	4.9	44.5	42.2
United States	470	52.4	16.5	25.8	3.4	1.8	52.4	0.3	0.5	1.1	55.8	49.0
INTERNATIONAL AVG	.	52.5	13.9	23.8	5.2	4.6	52.5	0.4	2.5	1.7	51.0	54.1

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

Item: O01 KEY: D  
 Which picture shows the best way for 50 kg child to balance 25 kg child on seesaw? (Physical Science)  
 Difficulty: 606

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	12.5	18.0	19.3	46.6	3.6	46.6	0.0	0.3	3.4	44.8	48.5
Austria	306	17.2	16.3	22.4	38.5	5.6	38.5	0.3	0.0	5.2	33.6	44.4
Canada	946	18.4	18.0	18.6	40.0	5.0	40.0	0.0	0.3	4.7	40.6	41.5
Cyprus	414	27.6	13.4	19.0	21.0	19.0	21.0	0.1	1.4	17.5	19.7	22.4
Czech Republic	412	14.4	10.6	20.6	49.4	5.0	49.4	1.0	1.0	3.0	43.5	56.1
England	365	19.7	17.4	21.7	35.6	5.7	35.6	0.0	0.0	5.7	32.2	38.7
Greece	374	25.8	15.6	21.7	21.9	15.1	21.9	1.1	2.9	11.1	19.4	24.2
Hong Kong	541	14.3	15.7	27.7	31.5	10.9	31.5	0.0	0.0	10.9	30.6	32.2
Hungary	376	23.3	17.6	24.5	28.8	5.8	28.8	0.0	1.0	4.8	23.5	33.5
Iceland	202	13.7	19.7	17.7	38.3	10.5	38.3	0.3	1.7	8.6	25.0	50.5
Iran, Islamic Rep.	412	27.1	15.2	13.4	18.7	25.5	18.7	2.9	0.2	22.4	15.9	22.2
Ireland	356	19.2	18.6	26.4	31.7	4.1	31.7	1.6	0.0	2.5	28.1	34.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	12.0	7.1	24.6	55.0	1.4	55.0	0.0	0.3	1.1	55.6	54.3
Korea	344	4.1	2.1	11.4	81.4	0.9	81.4	0.0	0.0	0.9	84.8	78.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	17.2	10.0	19.8	42.9	10.0	42.9	0.0	0.6	9.5	47.6	38.2
Netherlands	357	16.0	18.0	22.1	43.2	0.7	43.2	0.7	0.0	0.0	39.1	48.5
New Zealand	314	19.9	16.4	22.8	36.8	4.2	36.8	0.0	0.5	3.7	35.4	38.4
Norway	267	15.7	13.6	15.6	42.7	12.5	42.7	0.0	1.9	10.6	38.0	46.0
Portugal	324	18.6	16.5	19.6	25.6	19.8	25.6	0.0	1.2	18.5	24.6	26.7
Scotland	399	24.1	16.2	22.9	32.2	4.5	32.2	0.0	0.6	3.9	30.8	34.7
Singapore	887	19.8	14.4	20.3	37.8	7.8	37.8	0.0	0.3	7.5	36.6	39.0
Slovenia	313	16.6	12.9	24.9	40.6	5.0	40.6	0.2	0.3	4.5	36.4	44.6
Thailand	359	34.7	17.4	18.2	27.4	2.3	27.4	0.0	1.6	0.8	25.1	29.9
United States	483	24.7	13.9	20.1	36.6	4.7	36.6	0.0	0.1	4.7	29.5	42.8
INTERNATIONAL AVG	.	19.0	14.8	20.6	37.7	7.9	37.7	0.3	0.7	6.9	35.0	40.5

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

Item: O02 KEY: A  
 Why did seeds placed on most cotton sprout, but not those covered with water? (Life Science)  
 Difficulty: 630

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	30.9	26.2	25.8	12.7	4.3	30.9	0.0	0.3	4.1	31.8	30.0
Austria	306	33.1	20.3	24.9	13.7	8.0	33.1	0.9	0.7	6.5	36.2	29.8
Canada	946	36.6	26.1	26.4	8.4	2.5	36.6	0.2	0.7	1.7	37.4	36.4
Cyprus	414	24.9	23.8	15.6	24.2	11.5	24.9	1.1	2.0	8.4	24.0	25.8
Czech Republic	412	40.0	19.6	24.3	11.1	5.0	40.0	0.7	1.0	3.4	39.5	40.6
England	365	33.2	28.1	23.5	12.3	2.8	33.2	0.0	0.2	2.6	33.3	33.1
Greece	374	24.0	26.5	21.6	9.0	18.9	24.0	1.1	4.3	13.5	23.5	24.4
Hong Kong	541	27.5	32.2	25.7	11.8	2.8	27.5	0.2	0.0	2.6	26.4	28.1
Hungary	376	33.6	26.4	18.8	13.9	7.3	33.6	0.0	1.4	5.9	37.4	31.1
Iceland	202	26.4	23.6	23.2	19.4	7.4	26.4	0.0	2.2	5.2	31.7	21.6
Iran, Islamic Rep.	412	24.3	23.6	26.5	12.0	13.6	24.3	2.9	0.5	10.2	26.7	21.1
Ireland	356	39.2	27.6	19.3	12.0	2.0	39.2	0.4	0.3	1.4	38.9	39.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	30.3	25.0	39.4	3.9	1.4	30.3	0.0	0.3	1.1	36.2	23.9
Korea	344	49.3	33.0	17.4	0.2	0.0	49.3	0.0	0.0	0.0	49.7	49.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	41.3	13.5	24.1	14.8	6.4	41.3	0.0	0.6	5.8	44.5	37.9
Netherlands	357	35.0	23.4	25.5	15.5	0.7	35.0	0.7	0.0	0.0	39.6	30.7
New Zealand	314	41.6	21.3	18.5	14.3	4.3	41.6	0.0	0.5	3.8	47.6	34.4
Norway	267	36.7	25.5	13.1	15.3	9.4	36.7	0.0	4.0	5.4	32.8	38.0
Portugal	324	34.4	20.9	18.1	15.9	10.7	34.4	0.0	1.8	8.9	29.2	39.9
Scotland	399	37.1	22.3	25.8	12.3	2.6	37.1	0.0	0.6	1.9	40.8	32.6
Singapore	887	44.9	24.6	19.2	8.8	2.5	44.9	0.0	0.3	2.2	47.2	42.5
Slovenia	313	32.0	28.6	20.2	14.1	5.1	32.0	0.5	0.7	3.9	34.7	29.4
Thailand	359	25.0	31.0	28.6	12.2	3.2	25.0	0.0	1.6	1.7	31.5	17.4
United States	483	37.4	29.4	18.7	10.8	3.7	37.4	0.2	0.1	3.5	38.1	36.8
INTERNATIONAL AVG	.	34.1	25.1	22.7	12.4	5.7	34.1	0.4	1.0	4.3	35.8	32.3

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

Item: O03 KEY: B  
 Shown pictures of the stages of a plants growth, in which order did they occur? (Life Science)  
 Difficulty: 505

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	18.7	66.6	2.8	3.1	7.4	1.5	66.6	0.0	0.4	1.0	65.8	67.5
Austria	306	24.9	55.3	3.9	3.2	7.2	5.5	55.3	0.9	1.0	3.6	55.1	55.2
Canada	946	20.5	61.3	4.2	1.6	9.3	3.1	61.3	0.5	0.7	1.9	64.7	61.1
Cyprus	414	21.4	49.2	9.1	2.5	10.4	7.4	49.2	0.9	2.4	4.1	49.7	49.2
Czech Republic	412	19.7	61.3	4.0	2.3	7.8	5.0	61.3	0.8	1.0	3.3	62.2	60.3
England	365	23.8	61.3	2.0	1.6	8.9	2.5	61.3	0.0	0.2	2.3	65.2	57.6
Greece	374	22.3	48.1	6.8	2.9	5.8	14.1	48.1	0.8	4.9	8.4	40.4	55.4
Hong Kong	541	13.7	82.9	0.8	0.3	0.8	1.5	82.9	0.0	0.0	1.5	80.3	84.8
Hungary	376	30.5	49.2	2.3	3.5	8.6	5.9	49.2	0.0	1.4	4.5	53.9	45.8
Iceland	202	26.6	40.8	13.4	1.8	10.4	6.9	40.8	0.0	2.7	4.2	37.2	44.1
Iran, Islamic Rep.	412	18.4	21.8	18.7	7.2	17.0	16.9	21.8	1.7	0.8	14.3	15.1	30.0
Ireland	356	18.0	59.1	6.6	1.4	11.2	3.6	59.1	1.5	0.3	1.9	63.8	55.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	9.2	88.5	0.6	0.7	0.1	0.8	88.5	0.3	0.6	0.0	90.5	86.4
Korea	344	3.8	95.3	0.3	0.3	0.3	0.0	95.3	0.0	0.0	0.0	95.2	95.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	20.1	52.7	5.6	3.9	14.8	2.9	52.7	0.0	0.6	2.3	59.2	46.0
Netherlands	357	18.5	74.2	1.7	0.8	4.2	0.7	74.2	0.7	0.0	0.0	76.1	71.6
New Zealand	314	20.6	63.5	4.0	2.0	7.6	2.3	63.5	0.0	0.9	1.4	67.6	58.5
Norway	267	23.5	37.7	10.0	2.9	12.1	13.8	37.7	0.5	5.1	8.3	38.2	36.4
Portugal	324	23.0	44.7	6.6	2.2	13.0	10.6	44.7	0.0	2.2	8.4	47.3	41.8
Scotland	399	23.6	53.5	7.7	3.2	9.6	2.4	53.5	0.0	0.6	1.7	60.5	45.4
Singapore	887	12.6	80.4	2.0	1.7	2.2	1.1	80.4	0.0	0.3	0.7	82.6	78.2
Slovenia	313	20.2	57.1	7.0	1.0	8.6	6.1	57.1	0.8	1.0	4.3	58.9	55.3
Thailand	359	14.6	60.3	9.9	4.3	7.6	3.3	60.3	0.0	1.6	1.8	62.2	58.0
United States	483	18.2	67.7	3.9	2.2	4.7	3.2	67.7	0.0	0.1	3.1	71.7	64.1
INTERNATIONAL AVG	.	19.4	59.7	5.6	2.4	7.9	5.0	59.7	0.4	1.2	3.5	61.0	58.5

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



Item: O04 KEY: A  
 The Moon produces no light, and yet it shines at night. Why is this? (Earth Science)  
 Difficulty: 485

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	60.7	5.7	5.5	23.9	4.1	60.7	0.0	0.4	3.7	58.1	63.4
Austria	306	64.0	12.0	6.4	12.5	5.0	64.0	0.3	1.0	3.6	68.7	59.8
Canada	946	63.2	7.5	7.5	18.7	3.1	63.2	0.0	0.9	2.2	62.7	63.8
Cyprus	414	54.1	12.7	8.1	18.6	6.6	54.1	0.2	2.4	4.0	56.3	52.3
Czech Republic	412	55.9	16.1	10.3	13.7	4.0	55.9	0.0	1.6	2.4	56.4	55.3
England	365	75.4	4.5	4.8	13.8	1.5	75.4	0.0	0.2	1.2	69.8	80.7
Greece	374	65.2	2.8	5.4	15.3	11.2	65.2	0.3	4.9	5.9	64.7	66.0
Hong Kong	541	84.8	4.2	4.2	5.1	1.6	84.8	0.0	0.0	1.6	83.0	86.3
Hungary	376	50.1	5.7	12.0	25.3	6.9	50.1	0.0	1.6	5.3	46.5	54.6
Iceland	202	62.7	6.8	5.6	16.3	8.6	62.7	0.0	3.2	5.4	62.6	62.8
Iran, Islamic Rep.	412	43.4	18.0	14.0	13.6	11.1	43.4	1.0	1.8	8.2	40.7	46.7
Ireland	356	68.0	6.3	5.6	17.4	2.8	68.0	0.0	0.7	2.1	66.9	68.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	51.0	5.8	4.7	36.3	2.1	51.0	0.1	0.6	1.4	49.3	52.9
Korea	344	77.1	2.7	6.3	13.7	0.3	77.1	0.0	0.0	0.3	81.0	74.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	57.3	11.7	10.6	16.6	3.8	57.3	0.0	0.6	3.2	50.4	64.3
Netherlands	357	66.3	6.7	6.3	18.3	2.4	66.3	2.4	0.0	0.0	64.1	68.0
New Zealand	314	53.5	7.3	4.3	32.0	2.9	53.5	0.0	0.9	2.0	50.1	57.6
Norway	267	70.0	7.1	4.1	8.6	10.3	70.0	0.0	6.1	4.3	71.5	68.9
Portugal	324	70.9	9.8	4.1	9.7	5.5	70.9	0.0	2.7	2.8	68.4	73.6
Scotland	399	65.3	6.4	8.2	18.8	1.3	65.3	0.0	0.6	0.6	65.2	65.6
Singapore	887	81.3	6.2	4.7	6.7	1.2	81.3	0.0	0.4	0.8	82.1	80.4
Slovenia	313	64.8	9.1	7.2	14.8	4.2	64.8	0.0	1.0	3.2	64.4	65.1
Thailand	359	53.5	5.9	17.8	19.8	3.1	53.5	0.0	2.1	1.0	54.7	52.0
United States	483	71.4	8.5	6.1	9.9	4.1	71.4	0.0	0.1	4.0	72.9	70.1
INTERNATIONAL AVG	.	63.7	7.9	7.2	16.6	4.5	63.7	0.2	1.4	2.9	62.9	64.7

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

Item: O05 KEY: A  
 Shown diagram of a beam of light striking a mirror, which diagram shows reflected beam? (Physical Science)  
 Difficulty: 551

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	52.8	17.6	10.0	14.9	4.7	52.8	0.0	0.7	4.1	54.7	50.7
Austria	306	53.6	13.2	11.3	13.6	8.3	53.6	0.0	1.0	7.3	51.7	54.5
Canada	946	54.4	21.1	7.6	11.7	5.2	54.4	1.0	0.9	3.4	53.2	54.7
Cyprus	414	42.0	11.7	17.1	7.8	21.5	42.0	1.6	3.1	16.8	44.5	39.6
Czech Republic	412	50.6	16.6	11.8	9.8	11.2	50.6	1.0	2.6	7.7	48.7	52.7
England	365	56.9	15.7	12.5	9.1	5.9	56.9	0.0	0.2	5.7	58.2	55.6
Greece	374	41.2	16.6	8.0	6.9	27.3	41.2	0.6	5.3	21.5	40.7	41.7
Hong Kong	541	61.0	15.6	7.4	10.6	5.4	61.0	0.2	0.0	5.2	59.6	62.1
Hungary	376	51.8	21.8	9.4	8.8	8.1	51.8	0.0	3.1	5.0	50.5	53.9
Iceland	202	49.7	15.6	6.8	12.8	15.2	49.7	0.0	3.9	11.3	47.7	51.6
Iran, Islamic Rep.	412	35.7	16.5	16.5	10.4	21.0	35.7	3.5	2.3	15.1	40.0	30.5
Ireland	356	49.0	17.0	11.6	14.1	8.4	49.0	0.5	1.0	6.9	45.0	52.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	49.9	18.1	8.9	21.7	1.4	49.9	0.0	0.6	0.8	53.7	45.8
Korea	344	63.2	13.3	8.1	15.1	0.3	63.2	0.0	0.0	0.3	64.7	62.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	252	41.0	22.6	13.4	12.3	10.7	41.0	0.0	0.6	10.1	39.3	42.6
Netherlands	357	46.1	21.9	15.4	14.5	2.2	46.1	2.2	0.0	0.0	45.6	45.6
New Zealand	314	50.6	20.8	15.6	8.6	4.3	50.6	0.0	0.9	3.4	47.3	54.7
Norway	267	33.7	16.5	17.1	14.0	18.7	33.7	0.5	7.2	11.0	30.8	35.6
Portugal	324	41.7	15.0	17.2	7.8	18.3	41.7	0.0	2.9	15.3	44.8	38.4
Scotland	399	54.0	18.5	11.5	10.4	5.6	54.0	0.0	0.6	4.9	53.4	55.0
Singapore	887	50.3	16.2	13.4	16.6	3.4	50.3	0.0	0.4	3.0	49.8	50.8
Slovenia	313	44.7	19.2	15.8	13.7	6.7	44.7	0.9	1.3	4.5	48.4	41.1
Thailand	359	60.1	10.9	12.8	9.4	6.8	60.1	0.0	2.1	4.7	62.5	57.2
United States	483	47.4	13.7	16.1	17.2	5.6	47.4	0.1	0.1	5.4	40.3	53.8
INTERNATIONAL AVG	.	49.2	16.9	12.3	12.2	9.4	49.2	0.5	1.7	7.2	49.0	49.3

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

Item: O06  
 Write down one example of how computers help people do their work. (Environment and other content)  
 Difficulty: 551

COUNTRY	N	10	11	12	13	14	19	70	71	76	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
															REACH		% Right	% Right
														ED				
Australia	584	24.6	2.6	14.9	8.1	2.8	7.2	0.6	3.2	2.7	15.9	2.3	15.0	60.3	0.7	14.2	63.5	56.8
Austria	306	7.9	6.6	7.3	0.9	5.6	15.1	0.2	1.7	3.8	16.0	7.1	27.7	43.4	1.6	26.1	45.0	41.3
Canada	946	22.5	5.5	12.8	9.9	1.7	8.5	0.5	2.1	2.9	14.3	3.5	15.9	60.8	0.9	15.0	64.2	56.7
Cyprus	414	0.5	5.7	1.1	6.0	0.1	5.6	0.0	2.4	5.0	24.6	4.0	45.1	18.9	4.3	40.7	17.4	20.7
Czech Republic	412	7.9	14.6	18.2	1.3	3.3	10.1	0.2	3.4	3.5	7.5	4.4	25.8	55.3	3.9	21.9	58.7	51.5
England	365	18.2	5.8	16.6	6.2	4.4	10.6	0.5	8.2	3.1	4.7	8.2	13.5	61.8	1.1	12.4	57.2	66.1
Greece	374	2.1	9.0	3.2	2.2	0.5	12.4	0.0	1.9	2.9	8.9	2.3	54.6	29.3	6.0	48.6	21.2	36.9
Hong Kong	539	8.5	1.5	20.2	12.4	0.0	5.3	1.1	0.0	2.7	9.6	3.5	35.0	48.1	0.0	35.0	50.5	46.4
Hungary	376	7.8	21.9	12.7	1.0	0.8	2.2	0.5	25.7	0.9	1.1	0.7	24.6	46.5	3.3	21.3	45.0	46.9
Iceland	202	10.4	12.5	2.8	1.3	1.5	8.5	0.0	1.6	2.2	12.0	6.4	40.9	36.9	4.1	36.8	37.3	36.5
Iran, Islamic Rep.	412	0.5	3.6	1.0	4.0	0.5	6.5	0.8	7.9	1.2	12.5	5.1	56.5	16.0	2.5	54.0	16.7	14.9
Ireland	356	13.8	11.2	27.2	8.3	4.0	3.9	0.0	3.7	3.5	8.3	3.9	12.3	68.4	1.0	11.3	68.4	68.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	19.5	6.8	5.6	0.6	3.3	8.0	0.3	24.8	6.8	12.0	5.0	7.5	43.7	0.6	6.9	44.2	43.3
Korea	344	10.8	11.1	15.9	15.0	0.6	15.7	0.3	15.2	1.4	12.2	1.6	0.2	69.1	0.0	0.2	69.1	69.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	5.8	7.5	5.1	2.4	1.1	2.2	0.4	1.4	3.9	29.6	1.3	39.2	24.1	0.9	38.3	22.0	26.3
Netherlands	357	11.1	14.0	9.8	4.8	2.9	10.4	0.6	16.4	2.0	8.4	7.7	11.7	53.1	0.0	11.7	52.5	53.8
New Zealand	314	19.6	4.0	8.5	5.7	2.5	10.9	0.6	7.7	1.7	17.3	3.0	18.5	51.2	1.1	17.4	53.3	48.8
Norway	267	23.6	3.3	10.5	1.9	3.7	2.8	0.9	4.7	1.6	8.3	6.2	32.5	45.8	8.7	23.7	41.9	50.2
Portugal	324	2.1	2.1	6.0	5.2	0.9	7.0	1.2	4.7	3.2	23.7	4.2	39.5	23.4	3.3	36.2	22.8	24.2
Scotland	399	13.6	4.6	11.6	11.8	2.6	9.7	0.9	6.3	2.7	14.8	2.5	19.1	53.8	0.7	18.3	53.9	54.1
Singapore	887	7.7	6.5	22.6	16.4	0.2	4.4	0.2	0.2	8.9	19.9	4.5	8.5	57.8	0.4	8.1	56.8	58.8
Slovenia	313	11.6	24.0	4.8	3.9	8.2	7.7	0.0	1.9	2.1	9.2	3.9	22.6	60.2	1.8	20.9	58.3	61.9
Thailand	359	6.9	9.1	4.4	1.8	0.4	18.3	0.2	1.3	2.1	27.7	0.9	26.9	40.8	2.5	24.3	44.9	36.1
United States	483	21.2	6.0	14.2	10.9	1.2	13.4	0.0	0.4	3.3	12.6	1.0	15.9	66.9	0.1	15.8	72.2	62.2
INTERNATIONAL AVG	.	11.6	8.3	10.7	5.9	2.2	8.6	0.4	6.1	3.1	13.8	3.9	25.4	47.3	2.1	23.3	47.4	47.2

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: O07 KEY: C  
 Which of the following animal produces milk for its young? (Life Science)  
 Difficulty: 461

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	16.5	5.0	63.3	12.7	2.6	63.3	0.0	1.3	1.2	67.9	58.4
Austria	306	19.2	4.7	54.3	16.6	5.2	54.3	1.1	1.6	2.5	57.2	51.1
Canada	946	24.5	3.7	61.5	8.0	2.3	61.5	0.0	0.9	1.4	63.7	59.1
Cyprus	413	15.7	6.6	56.4	12.8	8.5	56.4	0.2	5.1	3.2	55.1	58.4
Czech Republic	412	3.9	1.3	85.1	3.6	6.1	85.1	1.5	3.9	0.7	87.1	82.8
England	365	23.6	3.2	63.1	7.2	2.9	63.1	0.0	1.3	1.7	59.7	66.3
Greece	374	10.8	6.7	60.8	8.4	13.2	60.8	0.5	7.0	5.8	56.0	65.4
Hong Kong	541	15.4	10.0	68.3	4.9	1.3	68.3	0.4	0.3	0.5	63.7	71.6
Hungary	376	5.4	3.0	84.5	1.1	5.9	84.5	0.0	3.7	2.2	84.8	83.7
Iceland	202	30.1	9.2	39.1	11.6	10.1	39.1	1.0	5.0	4.2	44.9	33.8
Iran, Islamic Rep.	412	8.7	8.4	65.9	7.2	9.9	65.9	1.7	2.5	5.6	63.9	68.3
Ireland	356	19.3	8.2	60.8	9.3	2.4	60.8	0.4	1.0	1.0	62.3	59.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	6.4	0.4	91.5	1.1	0.6	91.5	0.0	0.6	0.0	93.1	89.8
Korea	344	5.1	0.9	90.8	2.6	0.5	90.8	0.0	0.0	0.5	94.5	88.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	3.8	4.1	72.2	17.3	2.6	72.2	0.0	0.9	1.7	71.8	72.6
Netherlands	357	15.7	6.0	68.5	8.3	1.5	68.5	1.5	0.0	0.0	66.1	72.3
New Zealand	314	11.7	3.5	73.6	8.6	2.6	73.6	0.0	1.5	1.0	77.7	68.6
Norway	267	14.8	6.4	57.2	7.8	13.8	57.2	0.0	10.0	3.8	50.8	61.9
Portugal	324	7.0	3.2	72.5	10.3	7.0	72.5	0.5	4.1	2.4	67.1	78.3
Scotland	399	31.1	5.7	53.3	7.6	2.4	53.3	0.0	1.4	1.0	52.8	53.8
Singapore	887	15.2	5.1	71.8	6.6	1.2	71.8	0.0	0.4	0.8	69.9	73.8
Slovenia	313	8.2	5.5	67.7	10.2	8.4	67.7	0.7	2.0	5.7	63.8	71.5
Thailand	359	13.6	5.8	75.8	1.7	3.1	75.8	0.0	3.1	0.0	80.6	70.0
United States	483	26.4	1.5	61.9	6.3	3.9	61.9	0.0	0.1	3.8	64.0	59.9
INTERNATIONAL AVG	.	14.7	4.9	67.5	8.0	4.9	67.5	0.4	2.4	2.1	67.4	67.5

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

Item: O08 KEY: C

Which of the following is the easiest way to separate a mixture of iron filings and sand? (Physical Science)

Difficulty: 566

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	584	24.2	10.1	38.3	21.6	5.8	38.3	0.0	2.0	3.8	35.2	41.7
Austria	306	23.4	7.6	45.7	17.0	6.3	45.7	0.3	2.2	3.8	42.7	48.3
Canada	946	28.8	10.6	38.5	19.0	3.1	38.5	0.0	1.2	1.9	40.1	37.2
Cyprus	414	20.8	14.0	45.9	11.0	8.3	45.9	0.0	5.1	3.2	44.8	46.9
Czech Republic	412	18.5	8.0	45.8	20.1	7.7	45.8	0.2	4.1	3.4	38.9	53.7
England	365	22.4	6.8	44.4	22.3	4.0	44.4	0.0	1.7	2.3	41.9	46.7
Greece	374	19.0	12.5	41.3	9.9	17.1	41.3	1.3	7.0	8.9	33.4	48.7
Hong Kong	541	30.5	9.1	39.2	18.2	2.9	39.2	0.4	0.5	2.0	32.0	44.6
Hungary	376	20.4	10.1	44.1	17.4	8.1	44.1	0.0	4.3	3.8	37.8	50.8
Iceland	202	22.6	18.9	27.9	19.8	10.8	27.9	0.0	6.1	4.7	27.9	28.0
Iran, Islamic Rep.	412	13.4	20.9	47.0	9.7	9.0	47.0	0.7	2.8	5.6	45.4	49.0
Ireland	356	29.6	9.3	35.8	21.9	3.3	35.8	0.4	1.5	1.5	34.8	36.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	6.0	6.9	81.7	4.5	1.0	81.7	0.0	0.6	0.4	83.6	79.6
Korea	344	2.7	5.5	84.4	5.7	1.6	84.4	0.0	0.0	1.6	81.4	86.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	25.1	9.4	43.8	17.6	4.0	43.8	0.0	0.9	3.1	40.8	46.9
Netherlands	357	18.5	11.9	48.1	19.6	1.9	48.1	1.5	0.0	0.4	38.6	57.3
New Zealand	314	23.7	9.8	37.7	26.7	2.2	37.7	0.0	1.5	0.6	42.0	32.5
Norway	267	17.8	9.7	45.7	11.7	15.1	45.7	0.0	11.0	4.1	41.6	49.5
Portugal	324	21.4	7.6	51.5	11.8	7.7	51.5	0.5	4.1	3.1	45.9	57.6
Scotland	399	30.8	7.8	35.0	23.6	2.9	35.0	0.0	1.8	1.0	30.9	40.2
Singapore	887	13.5	7.7	71.9	5.1	1.8	71.9	0.0	0.4	1.4	72.7	71.1
Slovenia	312	25.7	22.3	32.6	12.3	7.1	32.6	1.1	2.3	3.7	25.2	39.7
Thailand	359	15.4	17.1	41.9	21.6	3.9	41.9	0.2	3.1	0.6	43.1	40.6
United States	483	34.7	8.8	35.1	16.8	4.5	35.1	0.0	0.1	4.4	32.6	37.4
INTERNATIONAL AVG	.	21.2	10.9	46.0	16.0	5.8	46.0	0.3	2.7	2.9	43.0	48.8

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: 009  
 Why do mountains sometimes still have snow on their tops when the snow on lower parts has melted? (Earth Science)  
 Difficulty: 629

COUNTRY	N	NOT REACHED													1.GIRL % Right	2.BOY % Right	
		10	11	19	70	71	72	73	76	79	90	99	V1	ED			OMIT
Australia	584	26.2	0.4	1.0	3.3	21.9	1.2	0.1	0.8	24.9	1.2	18.9	27.6	3.4	15.5	25.7	29.6
Austria	306	14.3	0.5	4.8	2.3	7.4	1.5	0.2	0.5	39.5	4.5	24.6	19.6	3.1	21.5	16.8	20.5
Canada	946	34.9	0.8	0.9	1.8	12.2	2.6	1.2	0.5	21.3	7.5	16.5	36.5	2.0	14.5	37.9	34.2
Cyprus	414	13.3	3.1	3.2	1.0	12.8	2.2	0.5	0.8	24.3	2.2	36.6	19.6	6.6	30.0	15.5	24.1
Czech Republic	412	38.5	0.7	3.3	5.8	7.4	4.0	0.0	1.7	10.0	3.7	25.0	42.5	5.7	19.3	38.3	47.3
England	365	29.9	2.0	1.5	4.8	13.2	3.4	0.5	3.5	19.3	5.6	16.2	33.4	2.4	13.9	28.7	37.7
Greece	374	14.4	1.6	2.4	4.0	15.0	3.2	0.6	1.1	20.5	0.6	36.7	18.3	10.0	26.7	17.2	19.4
Hong Kong	539	24.4	1.9	0.4	0.4	1.4	2.2	0.1	4.6	29.2	3.9	31.6	26.6	1.9	29.7	23.9	28.7
Hungary	376	48.1	1.3	1.8	5.5	0.4	2.4	0.4	3.0	9.2	0.7	27.1	51.2	6.2	21.0	51.2	52.3
Iceland	202	24.6	1.0	2.4	2.2	5.5	3.6	0.0	1.7	13.3	6.7	39.0	28.0	7.5	31.5	22.0	33.5
Iran, Islamic Rep.	412	13.8	0.1	6.3	1.1	0.3	4.6	0.0	0.5	25.6	4.6	43.0	20.2	5.5	37.4	13.6	28.2
Ireland	356	30.4	0.6	0.8	6.9	11.4	5.9	0.6	2.0	20.7	4.8	15.9	31.8	2.0	13.9	29.7	33.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	541	47.8	3.5	9.3	5.8	13.2	2.7	2.3	0.7	9.2	1.1	4.4	60.7	0.8	3.6	60.1	61.3
Korea	344	48.3	1.8	3.6	7.0	1.1	1.1	4.1	3.0	27.6	1.9	0.6	53.6	0.0	0.6	52.1	54.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	253	24.1	2.0	3.6	0.6	9.4	2.1	2.1	1.8	30.2	0.0	24.1	29.7	2.9	21.2	27.2	32.4
Netherlands	357	28.4	1.6	1.5	1.6	28.0	2.4	2.2	2.0	25.8	0.6	6.0	31.5	0.0	6.0	26.3	37.7
New Zealand	314	19.7	2.3	1.5	4.4	28.2	1.2	0.9	1.1	19.8	3.5	17.4	23.5	1.9	15.5	22.3	24.9
Norway	267	43.4	0.5	0.0	3.0	3.5	4.5	0.0	0.6	11.6	3.0	29.9	43.9	12.5	17.4	49.6	38.5
Portugal	322	16.2	2.8	2.5	1.7	7.7	4.7	0.3	2.6	26.9	2.6	32.0	21.6	5.9	26.1	18.4	25.0
Scotland	399	28.7	1.6	1.6	3.2	14.9	4.8	0.4	1.7	22.7	2.4	17.8	31.9	1.8	16.0	31.4	32.3
Singapore	887	18.9	0.4	0.1	3.4	14.6	0.6	0.4	4.6	43.5	3.1	10.4	19.5	0.5	9.8	16.8	22.2
Slovenia	313	22.2	0.9	5.2	2.8	14.8	3.1	1.3	2.0	18.7	5.0	24.1	28.3	2.8	21.4	26.7	29.7
Thailand	359	6.4	2.8	7.0	0.4	12.4	0.6	0.0	1.5	39.7	1.3	27.9	16.2	3.5	24.4	21.2	10.3
United States	483	34.4	1.5	0.1	2.4	11.5	2.1	0.3	1.7	29.5	2.7	13.9	36.0	0.2	13.7	30.2	41.1
INTERNATIONAL AVG	.	27.1	1.5	2.7	3.1	11.2	2.8	0.8	1.8	23.5	3.0	22.5	31.3	3.7	18.8	29.3	33.3

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: P01 KEY: B

When this caterpillar becomes an adult, which of the following pictures will it look like? (Life Science)

Difficulty: 382

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	1.6	94.3	1.2	2.5	0.1	0.3	94.3	0.0	0.0	0.3	93.4	95.1
Austria	313	2.4	90.9	0.6	2.4	1.2	2.5	90.9	0.0	0.2	2.2	93.8	89.1
Canada	943	1.9	96.2	0.5	0.4	0.3	0.7	96.2	0.2	0.0	0.5	97.8	94.2
Cyprus	393	17.4	53.7	3.5	18.5	1.3	5.6	53.7	1.0	0.2	4.4	52.7	54.8
Czech Republic	402	3.8	90.2	0.8	2.9	0.5	1.7	90.2	0.8	0.3	0.7	90.5	90.0
England	382	1.4	92.3	0.7	1.7	0.6	3.4	92.3	0.0	0.0	3.4	92.7	91.8
Greece	369	10.8	51.5	2.9	19.2	1.3	14.4	51.5	6.7	0.0	7.7	48.7	54.4
Hong Kong	553	3.3	92.4	2.1	1.4	0.2	0.7	92.4	0.0	0.0	0.7	92.2	92.8
Hungary	381	4.0	79.3	1.6	9.0	1.0	5.0	79.3	0.0	0.8	4.2	79.2	80.4
Iceland	206	14.2	64.9	2.4	12.3	2.3	3.8	64.9	1.2	1.3	1.3	67.2	62.8
Iran, Islamic Rep.	419	7.6	59.7	10.2	8.9	2.9	10.7	59.7	0.8	2.9	7.0	60.5	58.7
Ireland	365	5.1	88.8	0.9	2.5	1.4	1.3	88.8	1.2	0.2	0.0	86.9	90.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	2.0	93.3	3.3	1.0	0.2	0.3	93.3	0.1	0.0	0.2	93.2	93.5
Korea	345	3.3	93.5	0.3	2.9	0.0	0.0	93.5	0.0	0.0	0.0	94.3	92.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	8.9	58.7	2.3	21.2	3.6	5.3	58.7	0.0	0.7	4.6	59.6	57.7
Netherlands	349	2.3	94.8	0.0	1.8	0.7	0.3	94.8	0.3	0.0	0.0	95.7	94.5
New Zealand	309	2.7	89.0	2.7	1.6	1.0	3.1	89.0	0.0	0.9	2.2	91.8	85.6
Norway	281	2.7	91.3	0.9	1.2	0.4	3.4	91.3	0.0	0.5	3.0	91.4	91.3
Portugal	323	15.3	54.3	2.8	14.3	3.0	10.2	54.3	0.0	3.3	6.8	49.6	58.7
Scotland	375	3.3	92.9	2.2	1.4	0.0	0.2	92.9	0.0	0.0	0.2	96.0	90.1
Singapore	889	2.4	92.4	1.1	2.9	0.6	0.6	92.4	0.0	0.3	0.3	93.2	91.9
Slovenia	312	6.9	82.5	1.5	6.2	1.3	1.6	82.5	0.5	0.4	0.6	83.2	81.8
Thailand	329	15.4	68.1	0.8	8.4	5.6	1.7	68.1	0.0	0.6	1.1	67.4	68.7
United States	473	1.7	95.9	0.2	0.4	1.1	0.7	95.9	0.0	0.1	0.6	97.4	94.6
INTERNATIONAL AVG	.	5.9	81.7	1.9	6.0	1.3	3.2	81.7	0.5	0.5	2.2	82.0	81.5

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: P02 KEY: A  
 Which of the following pictures shows plants commonly found in a desert? (Life Science)  
 Difficulty: 381

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	90.0	1.9	0.6	7.3	0.2	90.0	0.0	0.0	0.2	88.9	91.1
Austria	313	91.9	0.2	0.9	3.1	3.8	91.9	1.4	0.8	1.7	94.5	89.8
Canada	943	88.4	2.3	2.8	6.0	0.6	88.4	0.0	0.0	0.6	90.7	87.9
Cyprus	393	65.2	5.6	3.9	13.2	12.1	65.2	9.5	0.6	2.0	63.0	67.9
Czech Republic	402	87.0	1.4	2.0	8.5	1.2	87.0	0.6	0.3	0.3	84.2	89.8
England	382	87.2	2.4	1.4	7.1	1.9	87.2	0.0	0.0	1.9	85.2	89.5
Greece	369	77.2	1.7	1.6	10.1	9.4	77.2	6.6	0.0	2.7	76.4	78.0
Hong Kong	553	96.5	0.8	1.0	0.9	0.8	96.5	0.3	0.0	0.5	94.9	97.7
Hungary	381	80.9	3.4	3.4	7.9	4.4	80.9	0.0	0.8	3.5	77.2	86.5
Iceland	206	83.4	3.2	1.8	8.7	2.9	83.4	0.3	1.5	1.1	79.2	87.4
Iran, Islamic Rep.	419	46.5	12.6	15.5	12.8	12.6	46.5	0.7	3.3	8.6	46.5	46.5
Ireland	365	82.7	1.8	2.2	12.5	0.8	82.7	0.4	0.2	0.3	82.8	82.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	93.1	0.7	1.0	5.3	0.0	93.1	0.0	0.0	0.0	92.3	93.8
Korea	345	95.0	0.6	0.6	3.4	0.4	95.0	0.0	0.0	0.4	90.9	98.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	79.3	3.5	1.4	10.6	5.2	79.3	0.0	0.7	4.5	75.9	82.7
Netherlands	349	94.0	0.3	1.5	3.1	1.1	94.0	1.1	0.0	0.0	93.8	94.7
New Zealand	309	83.0	2.0	1.6	11.1	2.3	83.0	0.0	0.9	1.4	83.0	82.9
Norway	281	86.9	0.0	0.0	9.2	3.9	86.9	0.0	1.1	2.8	85.7	88.0
Portugal	323	73.6	3.2	6.3	9.3	7.5	73.6	0.0	3.3	4.2	70.6	76.4
Scotland	375	86.8	1.1	2.0	9.3	0.7	86.8	0.4	0.0	0.3	84.6	88.7
Singapore	889	68.4	7.0	7.6	16.3	0.8	68.4	0.0	0.3	0.5	64.0	72.4
Slovenia	312	76.2	3.8	4.5	14.0	1.5	76.2	0.8	0.4	0.2	71.0	81.3
Thailand	329	59.6	16.4	6.1	16.2	1.7	59.6	0.0	0.6	1.1	53.6	65.1
United States	473	93.9	2.0	1.0	2.1	1.0	93.9	0.3	0.1	0.6	94.9	93.0
INTERNATIONAL AVG	.	81.9	3.2	2.9	8.7	3.2	81.9	0.9	0.6	1.6	80.2	83.9

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



Item: P03 KEY: B  
 Which of the following is not used as an energy source? (Physical Science)  
 Difficulty: 666

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	28.4	26.7	16.2	27.3	1.3	26.7	0.0	0.0	1.3	26.8	26.7
Austria	313	15.1	33.6	15.1	31.4	4.7	33.6	0.2	0.8	3.8	22.7	42.7
Canada	943	25.7	33.5	17.5	21.9	1.4	33.5	0.2	0.0	1.2	33.2	34.2
Cyprus	393	24.8	27.0	17.4	22.9	8.0	27.0	1.4	0.7	5.9	22.9	32.0
Czech Republic	402	37.1	24.4	20.7	12.0	5.7	24.4	2.1	0.3	3.3	24.7	24.1
England	382	27.3	28.6	19.4	23.4	1.4	28.6	0.0	0.0	1.4	26.4	30.9
Greece	369	25.9	31.3	17.9	17.9	6.9	31.3	1.0	0.0	5.9	31.7	30.9
Hong Kong	548	46.7	21.5	24.6	5.7	1.5	21.5	0.4	0.0	1.1	19.8	22.6
Hungary	381	26.8	29.8	15.6	19.7	8.1	29.8	0.0	0.8	7.3	28.5	32.5
Iceland	206	11.5	28.8	24.7	31.4	3.6	28.8	0.2	1.5	1.8	24.2	33.1
Iran, Islamic Rep.	419	18.1	30.0	16.2	21.8	13.9	30.0	1.9	3.5	8.5	32.1	27.5
Ireland	365	24.0	33.1	21.2	20.9	0.8	33.1	0.2	0.2	0.4	26.8	37.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	28.0	40.3	8.2	23.2	0.3	40.3	0.0	0.0	0.3	36.9	43.6
Korea	345	42.5	27.9	16.6	13.0	0.0	27.9	0.0	0.0	0.0	17.4	37.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	24.6	26.6	13.3	28.9	6.7	26.6	0.0	1.0	5.7	25.5	27.6
Netherlands	349	20.7	30.6	20.3	25.6	2.9	30.6	2.9	0.0	0.0	30.3	31.7
New Zealand	309	21.7	24.1	23.6	27.0	3.6	24.1	0.0	0.9	2.7	21.3	27.4
Norway	281	17.7	16.6	18.8	36.5	10.4	16.6	0.0	1.1	9.3	13.5	20.7
Portugal	323	18.5	29.4	20.2	20.5	11.4	29.4	0.0	3.3	8.1	26.9	31.8
Scotland	375	25.4	32.2	20.4	20.7	1.3	32.2	0.0	0.0	1.3	27.4	36.9
Singapore	889	31.5	26.2	16.6	24.4	1.3	26.2	0.0	0.3	1.0	25.4	26.9
Slovenia	312	19.3	29.6	13.6	29.7	7.7	29.6	2.2	0.4	5.0	29.1	30.2
Thailand	329	30.2	27.9	20.9	19.0	2.1	27.9	0.0	0.6	1.5	21.6	33.5
United States	473	32.0	33.0	13.6	20.4	1.0	33.0	0.2	0.1	0.7	27.4	37.7
INTERNATIONAL AVG	.	26.0	28.9	18.0	22.7	4.4	28.9	0.5	0.6	3.2	25.9	31.7

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

Item: P04  
 Compare mass of beaker of water and a weight with mass of beaker of water with weight inside. (Physical Science)  
 Difficulty: 672

COUNTRY	N	10	70	71	79	90	99	V1	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	27.9	32.7	18.8	9.5	1.8	9.3	27.9	0.1	9.2	31.0	24.9
Austria	313	36.4	24.9	23.9	2.7	2.2	9.9	36.4	0.8	9.1	29.4	42.4
Canada	943	19.2	27.9	25.3	11.6	7.4	8.6	19.2	0.1	8.5	15.6	21.8
Cyprus	392	17.8	30.6	15.3	13.0	0.4	23.0	17.8	1.8	21.2	14.3	22.0
Czech Republic	402	36.0	22.4	18.7	7.3	1.6	14.1	36.0	0.5	13.6	34.3	37.6
England	382	22.5	36.7	15.4	6.0	10.0	9.5	22.5	0.0	9.5	21.8	23.3
Greece	369	23.9	25.5	11.4	7.2	3.4	28.6	23.9	0.2	28.4	22.6	25.2
Hong Kong	548	27.3	41.7	7.5	10.9	0.2	12.3	27.3	0.0	12.3	25.7	28.5
Hungary	381	25.9	31.8	26.1	1.2	2.5	12.6	25.9	0.8	11.8	23.7	29.1
Iceland	206	18.3	41.1	20.1	2.3	0.8	17.4	18.3	1.5	15.9	11.8	24.3
Iran, Islamic Rep.	419	19.6	18.2	11.4	2.4	9.3	39.0	19.6	3.5	35.5	19.4	19.8
Ireland	365	22.7	37.9	13.0	7.8	10.2	8.4	22.7	0.3	8.0	17.0	26.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	47.6	38.8	6.7	0.1	1.5	5.4	47.6	0.0	5.4	47.7	47.6
Korea	345	40.0	40.6	8.2	6.3	3.8	1.2	40.0	0.0	1.2	37.4	42.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	38.2	17.8	21.5	1.9	1.1	19.5	38.2	1.3	18.2	39.8	36.5
Netherlands	349	26.2	36.9	22.4	4.7	5.0	4.8	26.2	0.0	4.8	24.9	28.1
New Zealand	309	24.5	37.4	12.9	8.1	1.3	15.8	24.5	0.9	14.9	23.6	25.3
Norway	281	24.5	30.2	16.4	9.8	1.9	17.2	24.5	1.8	15.4	25.5	22.0
Portugal	323	26.1	21.6	12.0	5.1	2.3	33.0	26.1	3.5	29.5	26.3	25.8
Scotland	375	16.2	43.6	14.2	10.7	3.7	11.6	16.2	0.2	11.4	14.7	17.3
Singapore	889	36.9	44.5	8.2	4.6	2.3	3.5	36.9	0.3	3.2	34.8	38.8
Slovenia	312	41.4	22.9	15.7	4.9	2.0	13.1	41.4	0.8	12.3	42.3	40.5
Thailand	329	12.7	24.4	4.5	3.2	0.0	55.2	12.7	0.8	54.3	12.5	12.9
United States	473	16.6	46.9	14.1	8.2	6.2	8.0	16.6	0.1	7.8	13.8	19.0
INTERNATIONAL AVG	.	27.0	32.4	15.2	6.2	3.4	15.9	27.0	0.8	15.0	25.4	28.4

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: P05 KEY: C

Shown pictures of magnets after being dipped into substance below it, which substance could be coffee? (Physical Science)

Difficulty: 601

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	5.9	20.1	43.3	28.2	2.5	43.3	0.0	0.8	1.7	40.8	45.8
Austria	313	5.6	15.8	40.6	33.7	4.3	40.6	0.0	0.8	3.5	31.1	48.3
Canada	943	7.8	22.7	33.1	35.2	1.2	33.1	0.1	0.2	0.9	32.4	34.1
Cyprus	393	4.4	29.9	32.9	26.2	6.6	32.9	0.2	1.8	4.7	30.6	35.6
Czech Republic	402	5.7	22.9	42.3	24.1	5.0	42.3	1.0	0.9	3.2	36.1	48.6
England	382	4.5	23.0	48.7	22.2	1.6	48.7	0.0	0.2	1.4	49.0	48.4
Greece	369	4.7	30.4	21.4	31.9	11.6	21.4	1.2	0.5	9.9	20.5	22.3
Hong Kong	553	4.0	19.0	46.9	29.1	1.1	46.9	0.2	0.0	0.9	50.1	44.6
Hungary	381	8.7	12.8	55.6	18.2	4.6	55.6	0.0	1.5	3.1	54.2	60.1
Iceland	206	9.9	33.2	24.1	28.3	4.5	24.1	0.0	2.5	2.0	20.8	27.2
Iran, Islamic Rep.	419	5.5	30.2	27.3	24.8	12.3	27.3	0.5	4.3	7.5	24.3	30.9
Ireland	365	6.7	23.0	44.5	23.1	2.6	44.5	0.9	0.3	1.4	38.1	49.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	4.1	10.7	74.9	9.9	0.4	74.9	0.0	0.2	0.2	78.3	71.5
Korea	345	6.5	13.4	73.3	6.9	0.0	73.3	0.0	0.0	0.0	75.0	71.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	6.0	26.6	38.0	20.3	9.1	38.0	0.0	2.1	7.0	38.2	37.9
Netherlands	349	7.6	31.0	32.0	28.1	1.3	32.0	1.3	0.0	0.0	28.5	36.2
New Zealand	309	8.2	19.5	41.0	28.7	2.6	41.0	0.0	0.9	1.7	39.3	42.6
Norway	281	10.0	30.0	36.5	16.6	6.9	36.5	0.0	2.6	4.3	29.9	43.7
Portugal	323	5.2	23.2	27.5	30.1	14.1	27.5	0.0	4.5	9.6	26.3	28.6
Scotland	375	6.8	19.3	48.2	23.7	2.0	48.2	0.3	0.2	1.4	45.9	50.8
Singapore	889	2.3	17.4	56.6	23.1	0.7	56.6	0.0	0.3	0.4	58.4	55.0
Slovenia	312	5.1	23.7	39.5	27.8	3.9	39.5	0.4	0.8	2.7	32.0	46.9
Thailand	329	7.1	21.8	26.3	42.1	2.7	26.3	0.0	1.5	1.2	21.7	30.5
United States	473	5.2	17.0	38.5	37.7	1.5	38.5	0.0	0.1	1.3	29.4	46.2
INTERNATIONAL AVG	.	6.1	22.4	41.4	25.8	4.3	41.4	0.3	1.1	2.9	38.8	44.0

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: P06 KEY: B

To find out whether seeds grow better in light or dark, where would you put seeds? (Environment and other content)

Difficulty: 661

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	11.6	34.4	23.4	27.8	2.9	34.4	0.0	0.8	2.0	35.9	33.0
Austria	313	11.3	19.3	48.6	16.2	4.6	19.3	0.0	1.0	3.6	20.8	18.2
Canada	943	14.8	30.2	33.1	18.0	3.9	30.2	0.2	0.5	3.2	32.4	28.3
Cyprus	393	11.6	23.5	30.7	19.7	14.6	23.5	0.5	3.6	10.4	21.7	26.0
Czech Republic	402	8.2	25.9	37.3	22.1	6.5	25.9	0.4	0.9	5.2	28.7	23.1
England	382	16.1	32.9	21.6	26.2	3.3	32.9	0.0	0.2	3.0	33.6	32.2
Greece	369	5.5	20.8	45.7	11.5	16.5	20.8	0.0	0.7	15.8	20.7	20.9
Hong Kong	553	9.9	25.3	51.4	10.4	3.0	25.3	0.3	0.0	2.7	23.7	26.8
Hungary	381	12.1	20.8	43.3	17.8	6.0	20.8	0.0	1.5	4.5	17.9	22.7
Iceland	206	14.6	30.3	39.1	7.9	8.1	30.3	0.0	3.0	5.1	33.4	27.4
Iran, Islamic Rep.	419	15.3	17.8	25.7	18.8	22.4	17.8	0.8	4.3	17.4	14.6	21.8
Ireland	365	25.5	23.7	18.8	29.4	2.5	23.7	0.5	1.0	1.0	17.6	28.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	.	.	.	.	.	.	.	.	.	.	.	.
Korea	345	7.8	55.9	28.4	7.9	0.0	55.9	0.0	0.0	0.0	60.2	52.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	13.1	23.6	32.2	19.7	11.5	23.6	0.0	2.6	8.8	23.4	23.8
Netherlands	349	13.7	27.4	35.1	22.5	1.3	27.4	1.3	0.0	0.0	32.7	22.7
New Zealand	309	16.4	32.9	24.2	24.0	2.5	32.9	0.0	0.9	1.6	36.0	29.0
Norway	281	13.1	23.3	38.6	14.6	10.4	23.3	0.0	3.6	6.8	23.8	21.6
Portugal	323	5.7	18.8	33.4	24.9	17.2	18.8	0.0	6.2	11.0	21.2	16.5
Scotland	375	16.9	32.0	17.2	32.0	1.9	32.0	0.0	0.6	1.3	30.8	33.5
Singapore	889	16.0	43.3	26.3	13.5	1.0	43.3	0.0	0.3	0.7	47.4	39.7
Slovenia	312	9.3	28.2	41.3	15.2	6.0	28.2	0.0	1.1	5.0	30.7	25.7
Thailand	329	15.7	30.0	29.4	21.4	3.5	30.0	0.0	1.5	2.1	34.4	25.9
United States	473	15.1	43.5	24.4	13.5	3.5	43.5	0.0	0.1	3.4	45.2	42.0
INTERNATIONAL AVG	.	13.0	28.9	32.6	18.9	6.7	28.9	0.2	1.5	5.0	29.8	27.9

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: P07 KEY: D  
 Which of the following travels fastest? (light) (Physical Science)  
 Difficulty: 632

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	13.6	19.1	19.8	45.5	2.0	45.5	0.0	0.8	1.2	33.1	57.9
Austria	313	17.0	27.2	20.1	33.8	1.8	33.8	0.3	1.0	0.6	24.7	41.4
Canada	943	15.3	20.9	27.4	34.5	2.0	34.5	0.0	0.5	1.5	26.5	45.1
Cyprus	393	12.7	34.7	23.9	22.9	5.9	22.9	0.7	4.2	1.0	23.5	22.8
Czech Republic	402	14.1	23.3	22.2	37.7	2.8	37.7	0.6	0.9	1.3	23.2	52.0
England	382	15.7	15.2	34.2	33.3	1.5	33.3	0.0	0.2	1.3	24.2	43.3
Greece	369	8.7	44.9	21.5	20.5	4.4	20.5	0.7	1.0	2.6	16.6	24.5
Hong Kong	553	10.8	32.3	27.9	27.7	1.2	27.7	0.5	0.0	0.7	16.3	36.6
Hungary	381	19.6	21.9	20.7	33.5	4.3	33.5	0.2	1.5	2.6	24.8	43.9
Iceland	206	32.8	23.6	13.2	25.9	4.5	25.9	0.0	3.7	0.8	17.1	34.2
Iran, Islamic Rep.	419	8.3	25.5	14.3	42.6	9.3	42.6	0.9	4.6	3.8	38.9	47.1
Ireland	365	15.9	14.5	36.1	32.3	1.3	32.3	0.3	1.0	0.0	17.5	43.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	8.9	20.3	18.2	52.4	0.2	52.4	0.0	0.2	0.0	47.8	57.1
Korea	345	1.8	34.5	26.4	37.3	0.0	37.3	0.0	0.0	0.0	23.3	50.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	7.1	22.6	38.0	26.9	5.4	26.9	0.0	3.9	1.5	24.0	29.8
Netherlands	349	15.3	43.0	22.5	17.5	1.7	17.5	1.7	0.0	0.0	10.5	24.4
New Zealand	309	16.2	20.8	23.5	37.7	1.9	37.7	0.0	1.2	0.7	26.5	50.6
Norway	281	10.5	33.4	17.6	30.0	8.6	30.0	0.0	4.8	3.8	21.9	37.4
Portugal	323	11.7	37.9	18.8	22.3	9.4	22.3	0.0	6.7	2.7	15.6	28.6
Scotland	375	22.1	21.9	28.4	25.2	2.4	25.2	0.0	0.6	1.8	16.0	33.1
Singapore	889	13.8	27.5	26.0	32.1	0.6	32.1	0.0	0.3	0.4	26.3	37.4
Slovenia	312	13.9	19.6	36.0	28.6	1.9	28.6	0.6	1.1	0.3	20.7	36.4
Thailand	329	16.7	43.4	21.5	15.9	2.5	15.9	0.0	1.7	0.8	8.7	22.4
United States	473	12.4	25.3	27.3	33.4	1.6	33.4	0.0	0.1	1.4	21.8	43.2
INTERNATIONAL AVG	.	13.9	27.2	24.4	31.2	3.2	31.2	0.3	1.7	1.3	22.9	39.3

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

Item: P08 KEY: E  
 Birds are different from insects in that birds have... (Life Science)  
 Difficulty: 562

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	24.0	0.6	3.0	7.6	60.8	3.9	60.8	0.0	0.8	3.1	62.7	58.9
Austria	313	13.2	2.4	3.9	15.0	63.1	2.4	63.1	0.1	1.0	1.3	63.5	63.1
Canada	943	23.8	1.0	1.3	5.8	61.2	7.0	61.2	4.2	1.2	1.6	62.7	61.1
Cyprus	393	43.5	4.9	3.9	9.6	22.8	15.2	22.8	7.6	4.2	3.4	25.5	20.6
Czech Republic	402	18.8	1.0	1.8	7.4	62.6	8.4	62.6	5.0	1.1	2.3	59.6	65.5
England	382	41.7	0.2	0.6	4.0	50.4	3.1	50.4	0.0	0.2	2.8	51.2	49.6
Greece	369	38.3	1.7	0.3	6.2	44.7	8.7	44.7	3.8	1.4	3.5	45.6	43.9
Hong Kong	553	51.7	4.8	7.5	6.8	23.1	6.1	23.1	4.8	0.0	1.2	18.2	26.8
Hungary	381	33.1	1.1	1.2	7.2	33.9	23.5	33.9	0.0	1.7	21.7	33.1	34.9
Iceland	206	28.2	4.0	2.0	14.4	42.6	8.7	42.6	1.6	4.0	3.2	49.2	36.5
Iran, Islamic Rep.	419	31.7	7.6	9.2	13.1	19.7	18.8	19.7	4.6	4.8	9.4	19.4	19.9
Ireland	365	35.1	0.5	1.5	4.1	56.3	2.4	56.3	1.0	1.0	0.4	58.6	54.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	21.3	1.9	1.0	4.6	70.5	0.7	70.5	0.2	0.2	0.3	69.9	71.2
Korea	345	21.4	7.0	1.1	5.5	64.4	0.6	64.4	0.0	0.0	0.6	63.1	65.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	35.1	2.3	2.2	11.3	38.2	10.9	38.2	0.0	3.9	7.0	37.2	39.1
Netherlands	349	47.0	3.3	2.1	5.1	36.9	5.6	36.9	5.6	0.0	0.0	39.6	35.4
New Zealand	309	24.7	3.9	2.9	5.4	55.8	7.3	55.8	0.0	1.2	6.1	62.5	47.7
Norway	281	29.0	2.6	3.9	4.2	49.2	11.1	49.2	0.0	5.8	5.3	53.1	47.3
Portugal	323	27.7	2.9	1.5	6.9	39.2	21.7	39.2	0.0	7.8	13.8	34.5	43.7
Scotland	375	35.5	1.3	0.0	3.8	55.1	4.3	55.1	1.9	0.6	1.8	54.6	55.1
Singapore	889	22.2	3.4	1.7	3.4	68.0	1.3	68.0	0.0	0.3	1.1	67.5	68.6
Slovenia	312	55.2	1.1	1.9	2.7	30.6	8.6	30.6	4.4	1.1	3.1	26.2	34.9
Thailand	329	33.8	1.5	6.0	8.2	46.8	3.8	46.8	0.0	2.1	1.7	42.0	51.2
United States	473	31.2	2.1	2.2	3.1	59.3	2.1	59.3	0.2	0.1	1.8	62.8	56.3
INTERNATIONAL AVG	.	32.0	2.6	2.6	6.9	48.1	7.8	48.1	1.9	1.8	4.0	48.4	48.0

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

Item: P09 KEY: A  
 Seeds develop from which part of a plant? (Life Science)  
 Difficulty: 619

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	578	32.5	2.9	53.2	7.4	3.9	32.5	0.0	0.8	3.1	33.2	31.8
Austria	313	58.5	1.8	31.8	5.7	2.2	58.5	0.6	1.1	0.4	60.0	57.9
Canada	943	23.8	5.4	57.8	9.8	3.3	23.8	0.0	1.4	1.9	20.7	26.1
Cyprus	393	41.7	3.1	41.3	5.6	8.4	41.7	0.0	5.1	3.3	41.1	42.6
Czech Republic	402	65.3	2.0	22.0	7.6	3.1	65.3	0.0	1.1	2.0	60.4	70.1
England	382	28.6	2.3	52.6	14.4	2.0	28.6	0.0	0.5	1.6	27.3	30.0
Greece	369	27.9	5.3	45.8	14.6	6.4	27.9	0.0	1.7	4.7	26.8	29.0
Hong Kong	553	46.5	6.0	36.1	9.7	1.7	46.5	0.0	0.5	1.2	38.7	52.9
Hungary	381	44.5	1.1	40.6	6.5	7.3	44.5	0.0	1.7	5.5	40.5	49.7
Iceland	206	28.4	7.4	49.4	8.6	6.2	28.4	0.0	5.4	0.7	24.3	32.2
Iran, Islamic Rep.	418	28.1	7.5	37.7	16.7	10.1	28.1	1.4	4.9	3.8	32.3	23.0
Ireland	365	18.2	7.8	59.3	12.1	2.7	18.2	0.3	1.0	1.4	14.8	20.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	542	59.9	5.7	26.0	7.8	0.5	59.9	0.0	0.2	0.3	64.9	55.0
Korea	345	50.9	7.0	24.4	16.3	1.3	50.9	0.0	0.0	1.3	53.0	49.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	255	67.0	1.1	19.5	6.7	5.6	67.0	0.0	4.1	1.5	70.9	63.0
Netherlands	349	40.0	5.6	39.9	10.7	3.8	40.0	3.0	0.0	0.8	42.6	38.6
New Zealand	309	31.1	3.8	48.5	11.9	4.7	31.1	0.0	1.2	3.5	27.3	35.1
Norway	281	27.8	6.3	50.3	4.5	11.2	27.8	0.0	6.7	4.5	22.5	32.7
Portugal	323	20.4	3.6	52.4	11.1	12.6	20.4	0.0	9.1	3.4	13.1	27.2
Scotland	375	23.6	2.8	56.1	13.8	3.7	23.6	0.0	0.6	3.1	20.3	26.9
Singapore	889	26.1	8.7	48.3	15.6	1.3	26.1	0.0	0.3	1.0	25.4	26.8
Slovenia	312	55.1	4.4	29.9	6.4	4.0	55.1	0.5	1.7	1.7	54.4	55.9
Thailand	329	51.5	6.4	20.6	16.9	4.6	51.5	0.2	2.1	2.3	45.2	57.3
United States	473	29.9	4.7	51.9	10.5	3.1	29.9	0.0	0.1	2.9	28.7	30.9
INTERNATIONAL AVG	.	38.6	4.7	41.5	10.5	4.7	38.6	0.3	2.1	2.3	37.0	40.2

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

Item: Q01 KEY: B  
 Shown pictures of the stages in a butterfly's development, in which order did they take place? (Life Science)  
 Difficulty: 527

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	21.9	71.1	2.5	3.1	1.3	71.1	0.0	0.1	1.3	72.5	69.8
Austria	308	31.2	57.2	4.2	2.9	4.6	57.2	1.9	0.2	2.6	55.8	58.0
Canada	946	23.4	69.1	1.7	3.3	2.5	69.1	0.5	0.9	1.0	68.9	67.2
Cyprus	436	39.9	43.8	7.2	3.7	5.3	43.8	0.9	1.1	3.3	45.0	43.4
Czech Republic	404	26.3	65.2	2.5	2.6	3.4	65.2	1.3	0.2	1.8	67.7	62.5
England	386	26.8	61.0	5.8	3.4	3.0	61.0	0.0	0.2	2.8	58.2	63.7
Greece	358	43.4	38.0	3.5	5.4	9.8	38.0	2.2	1.1	6.5	44.1	33.0
Hong Kong	553	29.1	68.1	1.4	0.1	1.2	68.1	0.2	0.2	0.8	61.1	73.5
Hungary	382	39.7	52.0	3.1	1.6	3.6	52.0	0.0	1.5	2.1	50.9	53.3
Iceland	205	54.8	30.0	5.6	4.6	5.1	30.0	0.0	2.2	2.9	30.2	29.8
Iran, Islamic Rep.	424	41.1	16.9	11.9	13.1	16.9	16.9	2.3	1.5	13.1	15.8	18.1
Ireland	360	36.3	50.6	5.7	3.6	3.7	50.6	1.6	1.3	0.8	46.1	54.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	8.6	88.7	1.0	1.0	0.7	88.7	0.2	0.2	0.3	87.0	90.2
Korea	345	12.8	86.4	0.7	0.0	0.0	86.4	0.0	0.0	0.0	80.7	91.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	38.8	40.6	6.6	6.8	7.2	40.6	0.0	1.4	5.9	41.9	39.4
Netherlands	335	22.6	74.5	0.0	1.7	1.2	74.5	0.9	0.0	0.3	71.1	77.5
New Zealand	305	24.2	64.9	4.8	3.0	3.1	64.9	0.0	0.0	3.1	67.3	62.6
Norway	285	35.5	54.1	1.0	3.4	6.0	54.1	0.0	3.7	2.3	51.7	55.9
Portugal	333	39.2	37.7	6.4	5.0	11.7	37.7	0.0	3.3	8.4	35.0	40.0
Scotland	389	29.1	58.7	6.7	3.6	1.9	58.7	0.6	0.0	1.3	55.6	62.0
Singapore	885	26.0	66.9	5.1	1.4	0.7	66.9	0.0	0.2	0.5	66.7	67.0
Slovenia	307	43.9	44.6	5.9	2.2	3.4	44.6	0.7	0.2	2.5	42.3	46.6
Thailand	301	58.5	27.1	7.4	4.9	2.1	27.1	0.0	1.6	0.5	25.0	29.8
United States	469	25.5	69.5	1.8	2.2	1.0	69.5	0.3	0.1	0.7	67.3	71.6
INTERNATIONAL AVG	.	32.4	55.7	4.3	3.4	4.1	55.7	0.6	0.9	2.7	54.5	56.7

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



Item: Q02 KEY: C  
 What is the best reason for including fruits and leafy vegetables in a healthy diet? (Life Science)  
 Difficulty: 513

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	11.7	22.7	46.8	15.1	3.6	46.8	0.0	0.1	3.6	46.2	47.4
Austria	308	4.9	6.4	78.6	4.2	5.9	78.6	0.5	0.7	4.7	80.1	77.3
Canada	946	14.6	23.6	49.5	9.1	3.3	49.5	0.2	1.1	1.9	50.5	47.6
Cyprus	436	23.5	23.5	35.5	9.3	8.2	35.5	0.4	1.6	6.2	41.9	28.7
Czech Republic	404	5.3	11.2	74.8	5.9	2.9	74.8	0.0	1.0	2.0	72.9	76.8
England	386	10.8	13.6	59.3	12.1	4.2	59.3	0.0	0.4	3.8	63.3	55.4
Greece	358	10.2	26.0	41.5	11.1	11.2	41.5	2.2	1.3	7.7	41.1	41.8
Hong Kong	553	10.8	10.8	74.5	2.0	1.9	74.5	0.2	0.6	1.0	74.6	74.6
Hungary	382	12.8	7.7	65.5	8.6	5.4	65.5	0.0	1.7	3.6	64.5	65.6
Iceland	205	14.0	16.0	55.9	6.9	7.2	55.9	0.0	2.2	5.0	50.1	61.9
Iran, Islamic Rep.	424	13.3	13.0	39.9	21.4	12.5	39.9	1.1	1.7	9.7	40.9	38.7
Ireland	360	10.7	19.9	55.2	10.5	3.8	55.2	0.9	1.3	1.6	53.4	56.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	16.1	20.2	52.7	9.9	1.1	52.7	0.0	0.5	0.6	56.6	49.3
Korea	345	0.9	27.8	67.8	3.6	0.0	67.8	0.0	0.0	0.0	64.0	71.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	11.1	9.3	63.3	9.0	7.3	63.3	0.0	1.4	5.9	70.3	56.8
Netherlands	335	1.5	1.9	91.3	4.6	0.7	91.3	0.7	0.0	0.0	91.7	90.7
New Zealand	305	14.5	15.3	47.7	16.5	6.0	47.7	0.0	0.3	5.7	49.6	45.9
Norway	285	11.2	8.7	58.7	10.4	10.9	58.7	0.0	4.8	6.1	54.5	60.8
Portugal	333	10.2	16.7	50.8	8.7	13.7	50.8	0.0	3.8	10.0	45.7	55.0
Scotland	389	10.4	14.5	61.0	11.2	2.9	61.0	0.0	0.0	2.9	63.2	58.2
Singapore	885	9.3	15.3	62.0	11.8	1.7	62.0	0.0	0.2	1.5	64.4	59.7
Slovenia	307	11.2	7.9	71.8	5.5	3.5	71.8	0.0	0.7	2.8	73.3	70.5
Thailand	301	7.5	24.8	40.3	24.3	3.0	40.3	0.2	1.6	1.2	36.4	45.2
United States	469	9.2	27.6	50.0	10.7	2.5	50.0	0.0	0.1	2.4	46.3	53.5
INTERNATIONAL AVG	.	10.6	16.0	58.1	10.1	5.1	58.1	0.3	1.1	3.7	58.1	57.9

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

Item: Q03 KEY: B  
 Which item is most likely to stay the same after being buried in wet ground for several years? (Physical Science)  
 Difficulty: 582

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	24.3	46.8	9.9	16.8	2.1	46.8	0.0	0.2	1.9	48.3	45.5
Austria	308	16.0	45.8	13.5	18.6	6.2	45.8	0.7	1.1	4.5	46.4	44.3
Canada	946	25.7	46.4	11.4	13.2	3.3	46.4	1.0	1.2	1.1	46.0	43.9
Cyprus	436	20.0	43.0	12.4	14.4	10.2	43.0	2.3	1.9	6.0	46.0	40.3
Czech Republic	404	19.0	46.6	8.6	22.1	3.8	46.6	0.4	1.2	2.2	45.7	47.4
England	386	19.7	50.6	11.4	15.2	3.2	50.6	0.0	1.1	2.2	51.9	49.3
Greece	358	18.9	45.5	10.9	17.2	7.5	45.5	1.5	1.8	4.2	40.8	49.4
Hong Kong	549	25.6	37.6	13.1	21.3	2.3	37.6	0.7	0.6	0.9	39.4	36.1
Hungary	382	13.6	64.4	7.1	10.3	4.6	64.4	0.1	2.1	2.3	63.7	66.1
Iceland	205	21.0	32.0	13.2	26.1	7.7	32.0	0.0	2.5	5.2	29.0	35.2
Iran, Islamic Rep.	424	21.6	31.8	9.4	25.2	12.0	31.8	2.0	2.5	7.5	31.5	32.2
Ireland	360	25.9	35.8	13.0	21.2	4.1	35.8	1.2	1.3	1.6	34.0	37.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	15.7	62.8	12.8	7.3	1.4	62.8	0.0	0.5	0.9	67.4	58.6
Korea	345	11.8	69.4	12.6	5.8	0.5	69.4	0.0	0.0	0.5	73.5	65.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	260	22.6	54.4	7.2	11.1	4.7	54.4	0.0	1.4	3.4	60.1	49.1
Netherlands	335	25.3	44.9	16.2	12.0	1.6	44.9	1.3	0.0	0.3	40.9	49.0
New Zealand	305	21.7	42.5	10.6	22.1	3.1	42.5	0.0	0.3	2.8	45.3	39.9
Norway	285	20.8	38.4	10.4	17.6	12.8	38.4	0.7	4.8	7.3	38.3	39.0
Portugal	333	20.0	37.0	8.7	20.7	13.7	37.0	0.0	4.4	9.3	32.2	41.1
Scotland	389	24.3	39.5	12.5	20.4	3.2	39.5	0.2	0.0	3.0	37.6	42.0
Singapore	885	36.0	30.9	12.4	18.7	2.0	30.9	0.0	0.2	1.9	29.7	32.1
Slovenia	307	18.5	61.6	5.9	8.5	5.4	61.6	0.4	0.7	4.3	59.1	63.8
Thailand	301	20.2	44.5	14.3	18.5	2.5	44.5	0.0	1.6	0.9	44.8	44.2
United States	469	26.3	40.9	12.2	19.5	1.1	40.9	0.0	0.1	1.0	39.6	42.1
INTERNATIONAL AVG	.	21.4	45.6	11.2	16.8	5.0	45.6	0.5	1.3	3.1	45.5	45.6

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

Item: Q04  
 When a glass jar is placed over a lighted candle, the flame goes out. Why does this happen? (Physical Science)  
 Difficulty: 540

COUNTRY	N	NOT REACHED											OMIT	1.GIRL % Right	2.BOY % Right		
		10	11	12	19	70	71	72	76	79	90	99				V1	
Australia	588	15.7	39.0	3.7	0.7	4.0	4.1	0.7	4.1	13.2	1.7	13.2	59.1	0.5	12.7	52.0	65.8
Austria	308	18.3	33.6	5.1	0.7	1.4	0.0	0.2	0.8	4.6	3.5	31.9	57.6	1.7	30.2	52.6	61.9
Canada	946	11.7	35.5	4.2	0.5	2.6	2.9	2.9	3.5	17.3	4.5	14.5	51.8	1.4	13.2	49.1	54.1
Cyprus	435	6.7	16.5	1.4	0.0	0.7	1.8	0.7	1.7	30.5	0.6	39.3	24.6	2.7	36.6	22.3	26.2
Czech Republic	404	27.7	47.4	4.1	0.5	0.2	0.5	0.0	2.9	5.3	0.9	10.4	79.8	1.2	9.1	74.5	85.6
England	386	7.7	43.1	0.5	0.2	3.0	3.2	4.0	2.9	16.9	2.4	16.0	51.5	1.1	15.0	51.7	51.4
Greece	358	4.7	13.3	2.3	0.0	0.9	1.5	2.6	1.5	6.5	2.4	64.3	20.3	2.0	62.4	19.2	21.3
Hong Kong	546	2.0	42.0	1.3	0.6	0.2	0.6	1.5	5.4	14.8	1.9	29.7	45.9	0.6	29.1	44.3	47.4
Hungary	382	25.1	37.5	0.6	1.1	0.6	0.4	1.7	1.1	10.1	0.3	21.6	64.3	2.1	19.4	59.6	69.0
Iceland	205	10.2	15.9	9.6	2.7	0.0	0.9	0.8	2.3	7.5	4.5	45.5	38.5	2.5	43.0	30.4	46.9
Iran, Islamic Rep.	424	1.0	19.9	2.2	0.0	0.9	0.5	0.5	4.3	24.2	0.8	45.7	23.1	3.0	42.7	17.8	28.8
Ireland	360	5.4	36.1	0.8	0.0	2.3	3.9	1.8	4.4	21.9	5.0	18.5	42.2	1.6	17.0	35.0	48.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	2.1	33.5	0.0	2.8	3.5	3.2	3.9	1.6	35.5	3.1	10.8	38.4	0.7	10.1	36.0	40.5
Korea	345	11.2	57.2	2.6	1.8	0.8	3.7	1.3	2.5	17.4	1.6	0.0	72.7	0.0	0.0	69.7	75.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	8.6	39.3	2.3	0.7	1.0	2.3	1.2	0.0	18.9	0.0	25.6	51.0	1.4	24.2	52.2	49.8
Netherlands	335	14.5	42.8	3.0	0.0	3.0	4.5	0.8	2.9	18.6	0.3	9.5	60.3	0.0	9.5	57.4	63.6
New Zealand	305	8.1	45.5	1.8	0.0	1.6	4.6	3.5	2.8	10.2	1.3	20.7	55.5	0.3	20.4	53.0	57.8
Norway	285	14.2	30.8	6.5	0.0	1.8	2.0	0.6	3.6	9.5	1.8	29.3	51.4	5.7	23.6	48.7	55.9
Portugal	333	9.2	22.6	2.0	2.9	1.0	1.8	2.6	3.6	9.9	1.1	43.2	36.7	5.5	37.7	37.6	36.0
Scotland	389	5.9	38.2	0.8	0.3	2.8	3.8	3.7	3.2	15.3	2.5	23.4	45.3	0.0	23.4	40.5	49.6
Singapore	885	6.3	31.6	0.9	0.1	1.4	4.0	3.2	12.9	25.7	3.0	10.8	38.9	0.2	10.6	33.1	44.6
Slovenia	307	36.8	38.1	2.7	0.8	0.3	0.6	0.6	2.2	5.2	1.0	11.7	78.3	0.7	10.9	77.2	79.3
Thailand	301	0.0	24.1	0.5	0.7	3.8	6.0	0.7	8.1	11.5	0.0	44.6	25.3	1.6	43.0	24.9	25.7
United States	469	17.2	29.7	4.8	0.0	2.2	2.7	1.7	6.4	24.1	2.0	9.2	51.6	0.1	9.2	43.8	58.9
INTERNATIONAL AVG	.	11.3	33.9	2.7	0.7	1.7	2.5	1.7	3.5	15.6	1.9	24.6	48.5	1.5	23.0	45.1	51.9

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: Q05 KEY: B  
 When an animal breathes faster and its heart beats faster, the animal is most likely... (Life Science)  
 Difficulty: 484

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	11.2	69.8	8.4	9.5	1.1	69.8	0.0	0.5	0.6	71.3	68.4
Austria	308	11.5	66.0	12.2	4.8	5.4	66.0	0.6	2.0	2.9	68.1	63.7
Canada	946	10.2	67.1	10.9	8.6	3.2	67.1	0.5	1.4	1.3	68.9	63.0
Cyprus	436	12.0	66.6	10.1	5.9	5.4	66.6	0.1	3.2	2.0	72.9	61.3
Czech Republic	404	6.1	73.7	11.0	5.9	3.2	73.7	0.1	1.4	1.6	74.0	73.4
England	386	12.5	62.5	11.1	10.6	3.4	62.5	0.0	1.1	2.3	63.9	61.1
Greece	358	10.9	65.7	10.6	6.9	5.9	65.7	0.6	2.2	3.0	67.2	64.5
Hong Kong	549	8.7	81.5	3.7	3.7	2.4	81.5	0.5	0.6	1.3	84.7	79.2
Hungary	382	12.2	64.6	14.7	4.4	4.0	64.6	0.0	2.1	1.8	68.5	61.4
Iceland	205	25.0	56.2	9.3	3.3	6.1	56.2	0.0	3.2	2.9	61.2	51.0
Iran, Islamic Rep.	424	11.2	50.9	15.2	10.0	12.7	50.9	0.6	4.1	8.1	52.0	49.8
Ireland	360	13.6	60.2	11.3	11.1	3.8	60.2	0.3	1.6	1.9	68.2	53.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	21.0	61.6	11.0	5.3	1.1	61.6	0.1	0.7	0.3	63.5	59.9
Korea	345	9.3	83.6	4.5	2.6	0.0	83.6	0.0	0.0	0.0	83.1	84.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	8.7	64.0	11.4	12.1	3.9	64.0	0.0	1.7	2.2	64.2	63.8
Netherlands	335	7.8	66.7	17.6	6.3	1.6	66.7	1.4	0.0	0.3	70.0	64.2
New Zealand	305	15.1	58.9	10.6	10.7	4.7	58.9	0.0	1.0	3.8	72.0	46.9
Norway	285	13.5	59.3	7.0	11.1	9.0	59.3	0.0	7.4	1.6	61.1	56.7
Portugal	333	12.9	48.8	19.0	9.9	9.4	48.8	0.0	8.0	1.4	47.1	50.3
Scotland	389	16.9	58.8	12.7	9.9	1.7	58.8	0.0	0.0	1.7	62.2	56.2
Singapore	885	12.9	68.1	11.4	6.5	1.1	68.1	0.0	0.4	0.6	72.5	63.9
Slovenia	307	8.4	73.7	9.8	4.7	3.4	73.7	0.3	0.7	2.4	75.8	71.8
Thailand	301	14.2	57.2	10.9	14.9	2.9	57.2	0.2	2.0	0.7	59.4	54.4
United States	469	12.9	70.1	9.7	6.4	0.9	70.1	0.0	0.1	0.8	74.3	66.3
INTERNATIONAL AVG	.	12.4	64.8	11.0	7.7	4.0	64.8	0.2	1.9	1.9	67.8	62.0

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

Item: Q06 KEY: C  
 Which of the following pictures does not show an insect? (Life Science)  
 Difficulty: 619

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	14.2	6.2	61.2	12.3	6.1	61.2	0.0	0.5	5.6	58.8	63.6
Austria	308	25.8	15.1	34.9	14.9	9.3	34.9	1.1	2.0	6.2	29.7	40.9
Canada	946	26.6	6.9	52.8	7.0	6.8	52.8	0.4	1.8	4.5	53.6	54.0
Cyprus	436	13.8	6.3	34.9	15.0	30.0	34.9	6.0	3.2	20.9	37.6	32.8
Czech Republic	404	24.7	18.3	30.5	11.9	14.5	30.5	8.3	1.6	4.6	27.8	33.4
England	386	34.1	10.8	39.9	4.7	10.5	39.9	0.0	1.1	9.4	37.6	42.0
Greece	358	14.2	4.5	27.7	19.7	33.9	27.7	5.0	2.2	26.6	27.3	28.1
Hong Kong	552	12.8	11.2	51.8	15.1	9.2	51.8	0.9	1.0	7.3	53.9	50.1
Hungary	382	43.2	13.6	23.2	10.4	9.7	23.2	0.0	2.6	7.1	20.8	25.5
Iceland	205	34.1	15.2	18.6	6.3	25.7	18.6	0.0	3.5	22.2	14.9	22.6
Iran, Islamic Rep.	424	18.1	19.2	14.5	10.8	37.3	14.5	5.5	4.3	27.5	15.9	13.1
Ireland	360	38.3	10.0	35.6	6.8	9.4	35.6	2.6	2.1	4.6	31.1	39.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	1.0	1.7	83.4	11.4	2.4	83.4	0.4	0.7	1.3	83.1	83.7
Korea	345	2.8	1.3	88.0	7.1	0.9	88.0	0.0	0.0	0.9	85.0	90.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	38.8	7.1	23.9	7.1	23.0	23.9	0.0	2.0	21.1	25.5	22.4
Netherlands	335	36.4	8.0	37.1	13.4	5.2	37.1	5.2	0.0	0.0	35.8	37.7
New Zealand	305	29.8	5.9	47.6	8.8	7.9	47.6	0.0	1.5	6.4	41.9	52.8
Norway	285	27.5	11.7	24.2	17.7	18.9	24.2	1.3	7.9	9.7	22.9	26.1
Portugal	333	16.3	11.0	28.0	21.1	23.5	28.0	0.0	8.0	15.5	27.0	29.0
Scotland	389	35.6	11.7	38.3	5.0	9.4	38.3	0.6	0.2	8.7	31.2	45.0
Singapore	885	7.8	4.5	77.5	6.3	3.9	77.5	0.0	0.4	3.5	74.3	80.5
Slovenia	307	22.4	13.8	36.1	16.4	11.2	36.1	3.8	0.7	6.6	36.3	36.0
Thailand	301	19.4	9.7	11.8	42.8	16.3	11.8	0.0	2.0	14.3	13.3	10.0
United States	469	25.8	6.8	53.9	8.4	5.1	53.9	0.1	0.2	4.7	47.5	59.8
INTERNATIONAL AVG	.	23.5	9.6	40.6	12.5	13.8	40.6	1.7	2.1	10.0	38.9	42.5

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

Item: Q07 KEY: D  
 Which of the following statements is not an observation? (Environment and other content)  
 Difficulty: 625

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	20.5	22.4	11.7	40.3	5.1	40.3	0.0	0.7	4.4	44.4	36.3
Austria	308	19.5	31.6	9.7	31.1	8.1	31.1	0.2	2.3	5.7	36.7	26.4
Canada	946	20.8	21.2	15.3	37.2	5.6	37.2	1.1	1.9	2.5	40.4	32.9
Cyprus	436	16.3	22.9	27.7	21.8	11.4	21.8	0.0	5.6	5.7	24.2	20.0
Czech Republic	404	19.3	18.6	14.2	38.3	9.6	38.3	0.9	2.0	6.7	35.8	41.0
England	386	20.0	22.5	11.4	41.1	5.0	41.1	0.0	1.1	4.0	42.7	39.5
Greece	358	17.8	24.6	12.2	27.3	18.0	27.3	2.0	3.7	12.4	34.3	21.6
Hong Kong	553	25.9	17.0	17.9	34.9	4.3	34.9	1.0	1.1	2.2	36.5	34.0
Hungary	382	18.0	25.5	11.1	34.5	10.9	34.5	0.0	2.8	8.0	36.2	32.6
Iceland	205	28.8	28.1	13.8	19.1	10.1	19.1	0.0	6.0	4.1	15.4	23.0
Iran, Islamic Rep.	424	14.9	19.8	23.4	19.3	22.5	19.3	0.9	6.4	15.2	22.1	16.4
Ireland	360	18.4	24.2	15.3	35.6	6.4	35.6	0.4	2.4	3.6	34.8	36.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	22.0	18.4	15.4	42.8	1.4	42.8	0.0	0.7	0.7	48.9	37.5
Korea	345	27.8	11.1	12.5	48.6	0.0	48.6	0.0	0.0	0.0	49.0	48.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	15.0	21.6	23.9	31.1	8.5	31.1	0.0	2.3	6.2	32.0	30.2
Netherlands	335	18.0	26.7	15.0	38.1	2.2	38.1	2.0	0.0	0.3	35.3	41.1
New Zealand	305	19.0	23.3	15.5	37.8	4.5	37.8	0.0	1.5	3.0	40.3	35.5
Norway	285	18.9	17.0	11.2	34.4	18.4	34.4	1.1	10.4	6.9	37.2	29.5
Portugal	333	19.5	20.2	14.5	24.7	21.0	24.7	0.0	10.1	10.9	21.4	27.5
Scotland	389	19.5	22.4	16.1	37.8	4.1	37.8	0.6	0.8	2.7	38.8	36.6
Singapore	885	20.7	26.9	14.2	36.5	1.6	36.5	0.0	0.5	1.2	38.3	34.8
Slovenia	307	24.5	17.6	18.4	31.6	7.9	31.6	1.2	1.5	5.2	31.7	31.6
Thailand	301	19.0	21.1	19.5	36.0	4.5	36.0	0.0	3.1	1.3	37.0	34.6
United States	469	22.3	19.4	12.7	43.4	2.1	43.4	0.2	0.2	1.7	42.5	44.3
INTERNATIONAL AVG	.	20.3	21.8	15.5	34.3	8.1	34.3	0.5	2.8	4.8	35.7	33.0

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

Item: Q08  
 Shown picture of pencil lying in front of mirror, draw reflection of the pencil. (Physical Science)  
 Difficulty: 599

COUNTRY	N	NOT REACH ED										1.GIRL		2.BOY		
		10	11	12	70	71	72	73	79	90	99	V1	OMIT	% Right	% Right	
Australia	588	36.1	4.6	0.1	3.7	0.3	32.5	3.0	2.0	2.9	14.8	40.8	1.5	13.3	37.9	43.5
Austria	308	29.8	1.2	10.7	1.8	0.3	26.7	1.3	0.5	1.2	26.5	41.7	4.3	22.2	42.1	40.3
Canada	946	37.3	0.4	4.5	3.2	1.9	24.3	2.1	5.1	2.6	18.6	42.2	2.7	15.9	43.2	41.8
Cyprus	435	9.2	0.0	2.4	0.5	0.3	21.6	2.3	8.7	0.3	54.7	11.6	6.8	47.9	12.0	11.3
Czech Republic	404	34.7	0.0	9.4	4.0	1.8	25.8	2.7	2.8	0.7	18.2	44.2	3.5	14.7	42.7	45.8
England	386	37.7	0.2	5.7	4.2	1.5	26.2	2.7	2.5	3.2	16.1	43.7	1.3	14.8	43.6	43.8
Greece	358	12.6	0.0	5.1	0.4	0.0	34.5	2.7	1.8	7.5	35.3	17.8	4.1	31.2	15.9	19.3
Hong Kong	552	46.3	0.0	5.0	9.4	2.0	13.4	0.9	6.4	0.1	16.6	51.2	1.1	15.5	49.7	52.4
Hungary	382	38.0	0.4	7.6	1.1	1.6	25.5	5.4	6.5	0.9	13.0	46.0	4.0	9.0	46.0	45.6
Iceland	205	29.9	0.0	8.8	1.0	1.9	29.8	0.5	3.5	0.0	24.6	38.7	6.3	18.3	31.8	45.9
Iran, Islamic Rep.	424	6.4	0.4	1.5	0.2	0.8	10.6	0.7	1.9	1.6	76.0	8.3	7.7	68.3	8.5	8.1
Ireland	360	22.8	0.0	7.3	3.4	1.6	32.4	3.3	6.8	5.5	16.8	30.1	2.4	14.3	28.5	31.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	46.5	0.8	1.7	8.3	1.7	12.6	2.9	9.2	2.6	13.7	49.0	0.8	12.8	52.7	45.6
Korea	345	54.5	3.5	3.4	8.1	0.8	16.0	0.3	6.3	6.8	0.3	61.4	0.0	0.3	59.0	63.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	32.5	0.3	2.3	0.7	1.4	30.9	3.0	2.2	0.0	26.7	35.1	2.9	23.8	33.8	36.2
Netherlands	335	37.9	0.6	6.0	5.4	3.0	33.3	3.6	7.3	0.0	2.9	44.5	0.0	2.9	39.4	49.7
New Zealand	305	33.4	0.3	4.8	2.8	0.6	30.5	1.6	5.5	1.9	18.5	38.6	1.9	16.6	38.7	38.5
Norway	285	25.3	0.0	3.6	4.4	1.1	26.7	3.0	8.9	2.3	24.7	28.8	11.6	13.1	31.0	26.0
Portugal	333	20.7	0.2	4.3	0.5	0.4	26.9	2.1	4.7	3.5	36.6	25.2	12.8	23.8	25.8	24.7
Scotland	389	39.1	0.3	3.6	3.0	2.9	23.2	2.7	6.2	1.4	17.6	42.9	1.4	16.2	40.1	45.8
Singapore	885	41.1	0.0	0.1	5.1	1.4	27.3	1.1	3.7	8.8	11.5	41.2	0.5	10.9	36.2	45.9
Slovenia	307	39.9	0.0	5.5	2.2	0.4	25.2	2.8	5.0	1.5	17.6	45.3	2.3	15.2	40.3	49.7
Thailand	301	13.5	1.1	7.7	2.6	0.0	11.6	0.0	5.4	0.2	57.9	22.3	3.6	54.3	24.6	19.5
United States	469	31.4	0.2	4.1	1.7	2.7	29.9	2.5	8.0	1.3	18.2	35.8	0.6	17.6	30.6	40.6
INTERNATIONAL AVG	.	31.5	0.6	4.8	3.2	1.3	24.9	2.2	5.0	2.4	24.1	36.9	3.5	20.5	35.6	38.1

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: Q09 KEY: C  
 Why does the liquid in a thermometer rise when exposed to heat? (Physical Science)  
 Difficulty: 568

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	588	12.6	8.3	57.1	17.8	4.2	57.1	0.0	2.0	2.1	59.3	55.0
Austria	308	13.2	9.3	47.9	20.3	9.4	47.9	0.5	4.3	4.6	47.6	47.3
Canada	946	14.1	11.5	53.3	15.4	5.7	53.3	0.2	2.9	2.6	55.2	50.7
Cyprus	436	17.3	7.1	40.2	23.0	12.4	40.2	0.4	9.0	3.0	40.1	39.3
Czech Republic	404	6.9	4.6	41.9	38.8	7.9	41.9	0.1	4.4	3.3	42.4	41.3
England	386	10.9	10.1	56.3	17.0	5.7	56.3	0.0	1.7	4.0	55.4	57.1
Greece	358	16.8	5.3	40.3	22.1	15.4	40.3	2.0	4.3	9.1	38.9	41.4
Hong Kong	553	8.5	6.7	61.7	19.8	3.3	61.7	0.4	1.1	1.8	55.1	66.7
Hungary	382	9.3	4.7	43.5	31.5	11.0	43.5	0.0	5.4	5.6	43.4	43.3
Iceland	205	22.5	14.6	31.5	16.7	14.7	31.5	0.0	10.7	4.0	28.8	34.3
Iran, Islamic Rep.	424	14.2	14.9	21.7	32.1	17.1	21.7	1.2	10.0	5.9	21.1	22.3
Ireland	360	17.4	10.5	46.1	20.9	5.1	46.1	1.0	2.9	1.1	45.3	46.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	8.9	8.3	53.9	26.4	2.5	53.9	0.0	1.0	1.5	56.1	51.9
Korea	345	9.6	4.2	61.5	22.5	2.2	61.5	0.0	0.0	2.2	58.6	64.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	12.4	8.6	43.2	27.2	8.6	43.2	0.0	4.4	4.3	41.7	44.5
Netherlands	335	18.4	9.1	44.1	26.5	1.9	44.1	1.6	0.0	0.3	44.1	43.7
New Zealand	305	14.2	8.8	50.5	18.8	7.7	50.5	0.0	3.9	3.8	49.2	51.8
Norway	285	16.2	6.9	37.2	19.5	20.2	37.2	0.0	12.2	8.0	37.3	36.8
Portugal	333	16.6	9.4	27.8	20.5	25.7	27.8	0.3	14.3	11.1	25.3	30.0
Scotland	389	14.2	11.9	49.3	19.6	5.1	49.3	0.0	1.6	3.5	45.1	53.4
Singapore	885	14.8	20.8	44.5	18.3	1.7	44.5	0.0	0.5	1.1	43.9	45.1
Slovenia	307	13.7	14.9	39.1	25.2	7.1	39.1	0.0	2.9	4.2	32.2	45.0
Thailand	301	18.5	20.0	35.0	18.2	8.3	35.0	0.7	5.1	2.5	36.6	33.0
United States	469	13.6	11.8	59.2	13.0	2.4	59.2	0.0	1.1	1.2	56.4	61.8
INTERNATIONAL AVG	.	13.9	10.1	45.3	22.1	8.6	45.3	0.4	4.4	3.8	44.1	46.1

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



Item: R01  
 A watering can is almost filled with water. Draw line to show surface of the water when can is tipped. (Physical Science)  
 Difficulty: 755

COUNTRY	N	10	70	71	72	73	79	90	99	V1	NOT	1.GIRL	2.BOY	
											REACH			OMIT
Australia	590	15.5	24.2	27.8	4.0	2.9	10.7	1.4	13.6	15.5	0.9	12.7	9.8	20.9
Austria	312	14.2	2.4	56.0	2.9	2.0	2.1	1.4	19.0	14.2	1.4	17.6	9.4	17.2
Canada	946	13.0	0.2	47.9	4.7	6.5	10.0	3.9	13.7	13.0	1.5	12.3	10.5	16.7
Cyprus	439	11.1	1.1	38.0	4.4	3.4	6.2	0.6	35.2	11.1	3.1	32.1	9.4	12.6
Czech Republic	405	21.7	0.6	42.7	4.4	4.5	3.8	3.2	19.1	21.7	2.2	16.9	13.3	30.9
England	387	20.8	2.5	43.2	4.6	3.8	9.1	3.4	12.6	20.8	0.5	12.1	15.6	25.8
Greece	358	16.3	2.0	29.4	2.5	2.5	7.2	2.1	38.0	16.3	2.0	36.0	14.0	18.2
Hong Kong	554	18.7	2.6	45.7	1.6	4.8	3.8	0.3	22.4	18.7	0.0	22.4	10.7	24.7
Hungary	382	16.4	0.6	46.2	7.9	1.8	6.1	1.8	19.2	16.4	3.2	15.9	10.8	22.1
Iceland	209	9.5	0.8	45.2	3.0	7.0	10.2	1.3	22.9	9.5	7.7	15.2	5.3	13.9
Iran, Islamic Rep.	424	5.5	1.1	12.4	2.0	2.6	6.9	1.3	68.4	5.5	2.3	66.0	5.0	6.0
Ireland	360	12.0	0.4	50.0	5.3	3.0	7.4	5.2	16.7	12.0	0.6	16.1	7.8	15.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	18.5	0.0	47.1	4.3	15.8	0.4	2.4	11.6	18.5	0.3	11.2	15.0	21.6
Korea	345	22.4	48.8	6.6	2.4	0.0	8.8	10.8	0.3	22.4	0.0	0.3	15.7	28.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	25.8	0.7	30.5	3.2	7.9	10.9	1.6	19.3	25.8	0.9	18.4	19.2	32.0
Netherlands	336	14.9	0.0	63.5	5.8	5.0	4.1	0.5	6.3	14.9	0.0	6.3	8.6	20.9
New Zealand	305	12.7	0.2	46.1	4.0	6.0	9.7	2.1	19.1	12.7	1.4	17.7	6.0	19.0
Norway	283	17.4	0.7	39.2	7.2	6.7	2.9	1.3	24.7	17.4	8.7	16.0	13.3	22.6
Portugal	332	14.1	0.4	41.6	2.0	3.9	2.8	1.4	33.8	14.1	11.9	21.8	11.5	16.3
Scotland	390	17.3	0.0	48.4	5.6	3.8	5.4	3.3	16.2	17.3	0.7	15.6	13.4	21.3
Singapore	886	15.4	1.1	53.8	5.3	3.3	4.4	5.0	11.6	15.4	0.2	11.5	10.7	19.8
Slovenia	307	18.5	0.0	48.2	3.0	2.4	4.3	0.2	23.4	18.5	0.9	22.5	11.0	25.0
Thailand	309	7.6	0.4	24.9	2.3	5.2	3.3	1.1	55.1	7.6	0.2	54.9	9.2	5.6
United States	466	11.9	1.0	47.7	5.0	4.0	12.0	3.8	14.4	11.9	0.0	14.4	9.3	14.4
INTERNATIONAL AVG	.	15.5	3.8	40.9	4.1	4.5	6.3	2.5	22.4	15.5	2.1	20.2	11.0	19.7

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: R02 KEY: C

Which statement gives the best start toward finding which of three light bulbs is brightest? (Environment and other content)

Difficulty: 633

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	12.8	12.5	41.2	27.9	5.5	41.2	0.0	1.0	4.5	41.7	40.8
Austria	312	13.6	26.9	24.9	24.3	10.3	24.9	0.2	1.9	8.2	27.8	20.7
Canada	946	13.9	18.0	38.1	26.2	3.8	38.1	0.4	1.7	1.7	38.2	37.4
Cyprus	439	18.5	24.2	26.1	17.6	13.7	26.1	0.4	5.0	8.3	23.9	28.3
Czech Republic	405	13.3	22.6	35.1	18.4	10.7	35.1	0.4	4.0	6.3	34.7	35.4
England	387	15.0	15.2	37.2	26.7	5.8	37.2	0.0	0.5	5.3	39.3	35.2
Greece	358	21.3	23.5	23.8	14.6	16.8	23.8	0.8	2.1	13.9	23.5	24.1
Hong Kong	554	15.7	16.1	46.9	19.1	2.2	46.9	0.9	0.0	1.3	50.0	44.5
Hungary	382	15.3	22.6	29.2	19.4	13.5	29.2	0.0	5.8	7.7	31.0	26.4
Iceland	210	17.2	21.9	26.1	21.8	12.9	26.1	0.0	9.2	3.8	28.0	24.1
Iran, Islamic Rep.	424	13.1	23.4	19.0	22.4	22.1	19.0	0.3	7.2	14.6	18.1	20.1
Ireland	360	11.9	24.7	37.4	22.8	3.2	37.4	0.2	0.8	2.2	35.1	39.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	3.3	21.6	38.1	36.1	0.9	38.1	0.0	0.7	0.2	40.2	36.2
Korea	345	4.5	11.2	48.1	36.0	0.3	48.1	0.0	0.0	0.3	48.7	47.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	11.2	29.3	28.4	20.0	11.1	28.4	0.0	2.2	8.8	27.0	29.7
Netherlands	336	12.9	19.2	39.9	26.6	1.4	39.9	1.4	0.0	0.0	38.9	40.4
New Zealand	305	16.6	12.9	36.3	27.7	6.5	36.3	0.0	2.1	4.4	30.2	41.8
Norway	283	12.8	14.6	23.0	29.3	20.4	23.0	0.0	12.3	8.0	19.0	28.4
Portugal	332	15.9	21.8	17.6	21.1	23.5	17.6	0.0	13.1	10.5	19.4	16.1
Scotland	390	15.6	18.1	32.7	30.0	3.6	32.7	0.2	1.6	1.8	32.9	32.4
Singapore	886	21.9	15.2	29.6	32.2	1.1	29.6	0.0	0.2	1.0	28.3	30.8
Slovenia	307	19.2	24.0	27.6	21.8	7.5	27.6	0.0	2.1	5.4	25.4	29.4
Thailand	309	13.4	28.4	35.4	20.9	1.9	35.4	0.0	1.0	0.9	37.3	33.0
United States	466	11.3	10.5	42.1	33.6	2.6	42.1	0.0	0.3	2.3	41.2	42.9
INTERNATIONAL AVG	.	14.2	19.9	32.6	24.9	8.4	32.6	0.2	3.1	5.1	32.5	32.7

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: R03 KEY: D  
 What will likely happen when an insect carries pollen from the flowers of a tree to those of a small plant? (Life Science)  
 Difficulty: 553

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	9.4	9.3	18.2	58.0	5.1	58.0	0.0	1.4	3.7	66.5	49.9
Austria	312	8.3	8.9	7.0	66.9	8.9	66.9	0.2	2.3	6.5	65.5	67.2
Canada	946	10.4	9.5	19.4	56.3	4.4	56.3	0.0	1.8	2.5	60.8	49.2
Cyprus	439	11.5	17.4	16.0	37.1	18.0	37.1	0.6	5.8	11.6	34.7	38.5
Czech Republic	405	4.5	4.2	10.0	72.8	8.5	72.8	0.2	4.8	3.5	77.3	67.9
England	387	13.4	8.3	13.8	59.6	5.0	59.6	0.0	1.2	3.8	63.3	56.0
Greece	358	11.8	7.1	20.2	45.1	15.7	45.1	0.4	2.5	12.8	49.6	41.4
Hong Kong	553	11.1	19.3	26.6	40.6	2.4	40.6	0.7	0.0	1.7	39.8	40.8
Hungary	382	4.2	4.3	11.8	65.8	13.9	65.8	0.0	7.1	6.8	68.3	63.1
Iceland	210	13.6	14.1	11.4	45.6	15.2	45.6	0.0	9.5	5.8	42.2	49.1
Iran, Islamic Rep.	424	7.8	11.6	23.1	36.1	21.5	36.1	0.6	7.4	13.5	43.2	28.5
Ireland	360	7.2	11.7	18.5	58.0	4.6	58.0	0.4	1.0	3.2	64.8	51.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	25.7	21.4	36.4	15.4	1.1	15.4	0.0	0.7	0.5	15.6	15.2
Korea	345	19.2	22.2	28.6	30.0	0.0	30.0	0.0	0.0	0.0	29.5	30.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	9.4	11.3	15.9	54.5	9.0	54.5	0.0	2.5	6.5	59.0	50.3
Netherlands	336	9.7	12.9	23.4	53.0	1.0	53.0	1.0	0.0	0.0	56.6	49.2
New Zealand	305	11.2	9.3	15.4	56.8	7.3	56.8	0.0	3.3	4.0	59.0	54.8
Norway	283	10.9	9.8	10.9	44.2	24.1	44.2	0.0	14.7	9.4	46.0	42.9
Portugal	332	9.3	6.1	11.3	45.2	28.1	45.2	0.0	16.0	12.1	42.9	47.2
Scotland	390	11.4	9.5	19.7	54.5	4.9	54.5	0.0	1.8	3.1	58.5	50.7
Singapore	886	13.6	16.9	22.3	46.2	1.0	46.2	0.0	0.2	0.9	49.0	43.6
Slovenia	307	8.4	5.3	13.4	66.0	7.0	66.0	0.0	2.1	4.9	63.8	67.8
Thailand	309	17.7	19.3	28.1	32.8	2.0	32.8	0.0	1.0	1.0	35.9	29.0
United States	466	10.2	12.2	19.1	56.0	2.5	56.0	0.0	0.3	2.1	57.6	54.5
INTERNATIONAL AVG	.	11.2	11.7	18.4	49.9	8.8	49.9	0.2	3.6	5.0	52.1	47.5

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

Item: R04 KEY: A  
 What is the most important reason for people to use a sunscreen when they are outside in sunlight? (Life Science)  
 Difficulty: 458

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	83.4	5.6	2.1	4.5	4.4	83.4	0.0	1.6	2.8	89.4	77.7
Austria	312	74.0	13.1	2.4	4.3	6.2	74.0	0.2	3.1	2.9	77.0	70.4
Canada	946	73.5	10.6	5.7	5.0	5.2	73.5	0.1	2.6	2.5	74.5	70.7
Cyprus	439	64.9	12.9	5.7	2.2	14.3	64.9	0.5	7.5	6.3	71.2	58.6
Czech Republic	405	78.7	4.9	2.5	6.1	7.9	78.7	0.2	5.8	1.8	79.5	77.9
England	387	74.6	9.2	4.2	7.0	4.9	74.6	0.0	1.9	3.0	75.0	74.3
Greece	358	63.0	20.5	0.7	3.5	12.2	63.0	1.0	3.1	8.1	67.0	59.8
Hong Kong	553	75.8	13.4	5.8	2.2	2.8	75.8	0.5	0.4	1.9	75.7	76.0
Hungary	382	60.2	13.8	2.9	7.9	15.2	60.2	0.0	9.2	6.0	56.6	64.3
Iceland	210	55.5	14.3	4.6	9.0	16.6	55.5	0.2	12.4	4.0	52.6	58.4
Iran, Islamic Rep.	424	25.3	10.9	27.5	15.1	21.2	25.3	1.3	9.4	10.6	26.2	24.4
Ireland	360	71.8	8.8	5.5	9.0	4.8	71.8	0.5	1.4	2.9	75.8	68.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	55.6	13.5	19.0	10.5	1.4	55.6	0.2	0.8	0.4	58.1	53.4
Korea	345	80.9	6.8	9.4	2.9	0.0	80.9	0.0	0.0	0.0	80.8	81.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	44.4	18.6	14.3	12.2	10.5	44.4	0.0	3.2	7.3	52.0	37.4
Netherlands	336	76.5	13.4	2.1	5.0	3.0	76.5	3.0	0.0	0.0	76.2	76.6
New Zealand	305	69.2	8.9	6.9	8.0	7.1	69.2	0.0	3.8	3.3	71.9	66.8
Norway	283	62.2	9.5	1.6	3.2	23.5	62.2	0.0	18.5	5.0	64.8	57.9
Portugal	332	52.6	5.9	12.9	7.3	21.2	52.6	0.0	17.1	4.2	57.5	48.4
Scotland	390	63.6	15.8	6.7	9.1	4.7	63.6	0.0	2.8	1.9	62.9	64.4
Singapore	886	58.0	22.1	10.9	8.2	0.8	58.0	0.0	0.2	0.7	57.0	58.9
Slovenia	307	72.1	13.3	3.4	4.6	6.6	72.1	0.3	3.2	3.1	71.3	72.8
Thailand	309	54.6	14.5	19.6	8.8	2.5	54.6	0.0	1.8	0.7	57.5	51.0
United States	466	75.4	10.0	4.3	5.2	5.1	75.4	0.0	0.5	4.5	78.5	72.4
INTERNATIONAL AVG	.	65.2	12.1	7.5	6.7	8.4	65.2	0.3	4.6	3.5	67.0	63.4

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

Item: R05 KEY: D  
 Shown picture of children playing with string telephone, one string tight and one slack, who can hear? (Physical Science)  
 Difficulty: 550

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	9.3	3.4	18.7	52.4	11.8	4.3	52.4	0.0	1.6	2.7	50.4	54.4
Austria	312	16.3	5.7	11.9	44.9	15.1	6.2	44.9	0.2	3.7	2.3	53.0	38.7
Canada	946	12.2	7.5	10.6	54.1	11.7	4.0	54.1	0.0	3.0	1.0	49.6	56.6
Cyprus	439	13.3	7.9	10.9	45.8	11.5	10.5	45.8	0.4	7.9	2.2	45.0	45.8
Czech Republic	405	11.6	10.6	11.8	42.5	15.3	8.1	42.5	0.0	6.2	1.9	46.2	38.5
England	387	7.6	4.4	13.2	55.2	15.5	4.2	55.2	0.0	2.2	1.9	52.6	57.8
Greece	358	11.9	6.1	11.7	43.2	16.2	10.8	43.2	0.9	3.4	6.5	39.5	46.3
Hong Kong	553	14.8	3.1	6.2	59.6	14.0	2.3	59.6	0.2	0.4	1.6	61.0	58.5
Hungary	382	15.8	5.7	10.1	22.5	31.1	14.8	22.5	0.0	10.1	4.6	24.9	20.6
Iceland	210	23.0	5.4	15.9	24.4	13.9	17.5	24.4	0.0	12.7	4.8	20.9	28.0
Iran, Islamic Rep.	424	15.9	4.6	11.6	26.6	19.7	21.5	26.6	1.4	11.6	8.6	28.8	24.3
Ireland	360	10.7	5.1	19.3	48.7	12.7	3.5	48.7	0.2	1.6	1.8	47.2	49.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	7.5	3.9	2.9	76.3	7.9	1.4	76.3	0.0	0.8	0.5	79.8	73.2
Korea	345	6.5	1.6	5.3	83.0	3.6	0.0	83.0	0.0	0.0	0.0	80.9	85.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	15.9	12.6	18.2	27.7	19.4	6.2	27.7	0.0	3.2	3.1	27.4	27.9
Netherlands	336	14.3	2.0	15.3	58.3	7.4	2.9	58.3	2.9	0.0	0.0	59.0	57.1
New Zealand	305	9.5	5.6	24.2	41.5	10.6	8.6	41.5	0.0	4.7	3.8	42.2	40.9
Norway	283	11.5	2.5	10.3	42.1	10.8	22.7	42.1	0.0	19.6	3.2	34.7	51.1
Portugal	332	7.2	4.3	7.8	47.5	6.1	27.0	47.5	0.0	17.8	9.2	49.7	45.6
Scotland	390	12.8	4.9	14.7	49.7	13.7	4.1	49.7	0.0	3.0	1.1	45.2	53.9
Singapore	886	12.2	4.8	7.4	67.2	7.6	0.7	67.2	0.0	0.2	0.6	67.3	67.2
Slovenia	307	12.4	14.0	14.2	42.3	12.1	4.9	42.3	0.0	3.2	1.8	38.5	45.6
Thailand	309	12.6	5.8	7.9	51.8	19.5	2.3	51.8	0.0	1.8	0.5	54.4	48.7
United States	466	7.7	3.9	10.2	65.2	9.9	3.2	65.2	0.0	0.5	2.6	66.4	64.0
INTERNATIONAL AVG	.	12.2	5.6	12.1	48.9	13.2	8.0	48.9	0.3	5.0	2.8	48.5	49.2

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

Item: R06 KEY: E  
 Which of the following groups contains only animals with a backbone? (Life Science)  
 Difficulty: 629

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	10.9	12.0	19.1	7.7	43.9	6.4	43.9	0.0	2.1	4.4	45.7	42.2
Austria	312	22.2	8.4	16.6	7.0	32.6	13.2	32.6	1.2	4.9	7.1	32.7	31.3
Canada	946	9.3	11.3	18.5	8.4	42.9	9.5	42.9	0.6	3.4	5.6	43.6	43.7
Cyprus	439	17.1	14.4	18.4	10.2	18.8	21.2	18.8	0.8	8.6	11.8	22.1	16.1
Czech Republic	405	8.8	4.4	21.8	4.7	47.2	13.1	47.2	1.1	7.0	5.0	44.4	50.2
England	387	12.0	12.5	23.8	6.2	36.1	9.4	36.1	0.0	2.7	6.7	36.0	36.3
Greece	358	11.6	4.2	7.7	3.7	52.3	20.6	52.3	3.8	4.4	12.4	53.8	51.0
Hong Kong	553	24.2	20.0	16.8	9.7	24.3	4.9	24.3	0.7	0.6	3.6	24.7	23.8
Hungary	382	6.6	7.2	21.1	3.9	40.6	20.7	40.6	0.0	13.3	7.4	38.9	43.1
Iceland	210	10.8	20.2	14.5	7.4	26.3	20.9	26.3	0.0	14.9	6.0	21.6	31.2
Iran, Islamic Rep.	424	10.8	12.4	16.4	12.4	16.8	31.2	16.8	1.5	13.4	16.2	13.1	20.7
Ireland	360	9.6	10.9	22.8	14.3	32.9	9.4	32.9	3.6	1.8	4.0	34.7	31.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	2.6	11.7	33.1	3.4	46.9	2.2	46.9	0.2	1.2	0.7	43.4	50.1
Korea	345	9.4	11.9	33.2	6.7	38.6	0.3	38.6	0.0	0.0	0.3	34.8	42.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	19.7	11.6	21.7	7.3	26.5	13.2	26.5	0.0	3.7	9.5	27.1	25.9
Netherlands	336	16.5	5.4	20.3	15.1	38.2	4.4	38.2	4.4	0.0	0.0	39.6	37.3
New Zealand	305	10.0	11.3	17.5	4.5	44.5	12.1	44.5	0.0	7.3	4.8	46.8	42.4
Norway	283	12.7	13.1	18.2	7.7	18.2	30.0	18.2	0.0	21.1	9.0	16.1	20.6
Portugal	332	10.9	4.3	14.4	4.1	30.3	36.0	30.3	0.0	22.3	13.7	28.7	31.6
Scotland	390	9.4	12.6	27.0	5.6	36.2	9.2	36.2	0.2	3.0	6.0	38.1	34.4
Singapore	886	12.7	21.6	17.5	11.1	35.1	1.9	35.1	0.0	0.2	1.8	32.4	37.7
Slovenia	307	12.6	11.3	27.7	7.6	28.7	12.1	28.7	0.5	4.3	7.4	26.9	30.3
Thailand	309	8.1	10.3	10.3	5.5	62.8	3.0	62.8	0.0	1.8	1.2	67.0	57.6
United States	466	9.2	12.8	20.3	4.9	47.8	5.1	47.8	0.0	0.5	4.5	48.5	47.1
INTERNATIONAL AVG	.	12.0	11.5	20.0	7.5	36.2	12.9	36.2	0.8	5.9	6.2	35.9	36.6

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

Item: R07 KEY: C  
 Select environment a worm would prefer in terms of light and moisture. (Life Science)  
 Difficulty: 554

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	11.6	14.8	54.5	15.2	3.9	54.5	0.0	2.2	1.7	54.9	54.0
Austria	312	15.1	10.0	56.9	8.4	9.5	56.9	0.5	5.3	3.8	60.5	54.9
Canada	946	13.5	12.1	53.3	14.5	6.6	53.3	0.3	3.7	2.6	52.2	51.6
Cyprus	439	22.8	25.3	15.7	18.2	18.0	15.7	1.0	10.0	6.9	13.9	17.0
Czech Republic	405	15.3	11.1	51.8	7.9	14.0	51.8	0.7	7.9	5.3	47.4	56.5
England	387	10.5	13.0	54.5	16.5	5.5	54.5	0.0	3.1	2.4	54.9	54.2
Greece	358	19.0	28.5	17.4	19.0	16.1	17.4	0.6	5.4	10.1	19.6	15.5
Hong Kong	554	19.8	16.4	46.0	14.7	3.2	46.0	0.4	0.6	2.3	44.6	47.3
Hungary	382	12.5	12.6	44.9	12.1	18.0	44.9	0.0	15.2	2.8	46.2	43.2
Iceland	210	17.2	11.8	34.8	15.3	20.9	34.8	0.0	16.2	4.7	28.5	41.3
Iran, Islamic Rep.	424	16.6	20.4	22.1	13.3	27.7	22.1	0.5	16.4	10.7	20.7	23.5
Ireland	360	9.5	18.1	46.6	21.1	4.7	46.6	1.0	1.8	1.9	47.2	46.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	7.0	10.8	69.0	11.4	1.8	69.0	0.0	1.3	0.5	71.1	67.0
Korea	345	13.9	6.0	73.1	6.5	0.5	73.1	0.0	0.0	0.5	72.7	73.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	11.4	15.3	43.5	15.5	14.3	43.5	0.0	5.8	8.5	47.6	39.6
Netherlands	336	9.3	11.3	59.5	18.6	1.4	59.5	1.1	0.0	0.3	59.6	59.8
New Zealand	305	7.8	17.5	46.7	16.0	12.0	46.7	0.0	7.7	4.3	43.2	49.9
Norway	283	7.7	8.1	41.7	13.1	29.4	41.7	0.0	24.3	5.1	40.9	41.1
Portugal	332	14.1	14.4	30.1	7.4	34.0	30.1	0.0	25.7	8.4	28.2	31.7
Scotland	390	7.0	19.0	50.8	16.2	6.9	50.8	0.1	4.0	2.8	48.5	52.2
Singapore	886	20.2	17.5	39.7	21.9	0.7	39.7	0.0	0.2	0.5	38.5	40.9
Slovenia	307	20.9	13.5	44.9	11.6	9.0	44.9	0.0	6.3	2.7	40.9	48.4
Thailand	309	28.3	24.6	21.8	21.0	4.2	21.8	0.0	1.8	2.4	19.8	24.3
United States	466	13.3	18.9	50.9	13.0	4.0	50.9	0.0	0.7	3.3	49.8	51.9
INTERNATIONAL AVG	.	14.3	15.5	44.6	14.5	11.1	44.6	0.3	6.9	3.9	43.8	45.2

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

Item: R08 KEY: B  
 Which of the following makes its own light? (Physical Science)  
 Difficulty: 560

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	15.5	44.8	16.2	18.8	4.7	44.8	0.0	2.7	2.0	40.6	48.7
Austria	312	6.9	70.1	5.8	6.9	10.3	70.1	0.5	6.6	3.3	77.6	63.1
Canada	946	18.1	46.6	12.4	15.8	7.1	46.6	0.3	5.0	1.8	40.6	52.4
Cyprus	439	8.6	49.1	13.2	8.3	20.8	49.1	1.4	12.0	7.4	48.1	49.5
Czech Republic	405	14.1	61.7	5.5	4.7	14.0	61.7	0.7	11.5	1.8	54.8	69.1
England	387	24.9	46.0	10.4	12.6	6.1	46.0	0.0	3.5	2.6	44.8	47.2
Greece	358	7.2	41.4	13.1	24.1	14.2	41.4	1.8	7.2	5.2	40.1	42.5
Hong Kong	554	9.4	39.5	43.6	5.1	2.3	39.5	0.8	0.6	1.0	35.2	42.6
Hungary	382	9.4	60.9	4.5	5.4	19.8	60.9	0.6	16.5	2.7	61.3	60.1
Iceland	210	19.6	40.7	5.5	12.0	22.2	40.7	0.0	18.6	3.6	38.7	42.7
Iran, Islamic Rep.	424	26.6	29.6	9.7	8.5	25.6	29.6	1.2	18.3	6.0	30.0	29.1
Ireland	360	19.2	47.8	13.7	14.3	5.0	47.8	0.4	2.5	2.2	44.9	50.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	45.9	23.6	18.0	10.7	1.7	23.6	0.0	1.3	0.4	16.3	30.0
Korea	.	.	.	.	.	.	.	.	.	.	.	.
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	13.7	54.5	15.1	6.4	10.2	54.5	0.0	8.0	2.3	55.1	54.0
Netherlands	336	9.0	56.3	19.7	12.3	2.6	56.3	2.4	0.3	0.0	58.6	54.5
New Zealand	305	14.1	44.8	13.0	16.0	12.1	44.8	0.0	9.5	2.5	37.2	51.9
Norway	283	16.9	28.4	8.1	14.3	32.3	28.4	0.7	26.2	5.4	29.1	27.0
Portugal	332	6.8	46.4	7.9	4.1	34.8	46.4	0.0	27.2	7.6	42.8	49.3
Scotland	390	17.0	45.5	18.5	11.2	7.8	45.5	0.0	4.7	3.1	45.0	45.7
Singapore	886	14.1	47.5	24.2	13.3	0.9	47.5	0.0	0.2	0.7	42.1	52.6
Slovenia	307	27.1	48.0	6.4	10.1	8.5	48.0	0.2	6.9	1.5	47.9	48.0
Thailand	309	22.3	29.3	28.4	17.1	2.8	29.3	0.0	1.9	0.9	26.7	32.6
United States	466	10.2	54.1	14.7	15.7	5.2	54.1	0.0	0.9	4.3	51.7	56.5
INTERNATIONAL AVG	.	16.4	45.9	14.3	11.6	11.8	45.9	0.5	8.3	3.0	43.9	47.8

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



Item: R09 KEY: A  
 Which of the following is an advantage of solar energy? (Physical Science)  
 Difficulty: 606

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	590	47.6	6.7	14.9	24.2	6.7	47.6	0.0	3.2	3.4	50.4	45.0
Austria	312	43.7	8.5	18.3	15.3	14.2	43.7	0.0	6.9	7.3	47.1	40.7
Canada	946	41.0	11.8	13.3	24.6	9.2	41.0	0.2	5.2	3.8	37.1	45.4
Cyprus	439	26.6	14.4	15.3	16.7	27.1	26.6	0.7	13.5	12.8	28.0	25.7
Czech Republic	405	40.4	10.8	16.0	12.2	20.6	40.4	0.2	11.7	8.7	37.3	43.8
England	387	36.3	7.9	11.3	32.8	11.7	36.3	0.0	3.9	7.8	28.2	44.0
Greece	358	25.6	8.9	17.7	20.6	27.3	25.6	1.0	7.8	18.5	31.6	20.6
Hong Kong	554	41.7	7.3	32.4	16.3	2.3	41.7	0.2	0.6	1.5	36.7	45.7
Hungary	381	32.2	12.2	19.9	13.0	22.7	32.2	0.0	17.0	5.7	30.1	34.5
Iceland	210	36.3	11.1	16.2	9.8	26.6	36.3	0.0	19.9	6.7	32.2	40.6
Iran, Islamic Rep.	424	17.8	11.0	23.4	14.9	32.9	17.8	0.5	20.1	12.3	22.5	12.7
Ireland	360	35.0	10.1	15.9	30.2	8.8	35.0	0.2	2.7	5.9	28.5	40.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	532	66.0	6.3	12.8	12.0	2.9	66.0	0.0	1.3	1.6	72.1	60.5
Korea	345	42.5	3.7	29.6	23.4	0.8	42.5	0.0	0.0	0.8	41.1	43.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	261	36.5	17.1	9.6	20.1	16.6	36.5	0.0	8.0	8.6	40.4	33.0
Netherlands	336	30.2	15.4	18.7	32.5	3.3	30.2	3.0	0.3	0.0	27.0	33.4
New Zealand	305	34.1	9.6	11.7	30.4	14.3	34.1	0.0	9.9	4.3	29.9	37.8
Norway	283	19.0	11.6	13.6	18.2	37.6	19.0	0.0	26.9	10.7	19.0	17.0
Portugal	332	28.6	4.4	16.6	12.1	38.3	28.6	0.0	28.7	9.6	31.2	26.5
Scotland	390	29.2	12.8	14.6	30.6	12.8	29.2	0.3	5.5	7.0	27.0	31.9
Singapore	886	27.6	20.4	22.5	26.6	2.9	27.6	0.0	0.2	2.7	27.4	27.9
Slovenia	307	48.3	11.2	13.6	11.9	15.1	48.3	0.3	6.9	7.9	45.0	51.1
Thailand	309	17.2	8.6	37.4	31.1	5.7	17.2	0.7	1.9	3.1	16.0	18.7
United States	466	43.5	8.8	16.5	22.9	8.3	43.5	0.0	0.9	7.4	39.4	47.2
INTERNATIONAL AVG	.	35.3	10.4	18.0	20.9	15.4	35.3	0.3	8.5	6.6	34.4	36.2

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

Item: W01  
 Shown pictures of sugar cubes and loose sugar, which will dissolve faster? Why? (Physical Science)  
 Difficulty: 641

COUNTRY	N	20	21	29	10	11	19	70	71	72	73	79	90	99	V1	V2	NOT REACH ED		1.GIRL % Right	2.BOY % Right	
																	ED	OMIT			
Australia	1187	19.6	8.4	0.6	14.6	22.9	1.8	6.5	1.9	1.0	6.5	4.6	1.9	9.8	67.9	28.7	4.5	5.3	28.8	28.5	
Austria	630	21.8	4.7	0.7	30.5	6.7	2.7	13.2	1.5	1.1	2.2	4.7	1.9	8.2	67.2	27.2	4.3	3.9	31.5	23.2	
Canada	1876	15.3	10.7	1.6	17.5	18.9	2.2	6.6	1.4	2.4	5.2	7.2	3.1	8.0	66.1	27.5	2.9	5.1	29.6	25.8	
Cyprus	798	8.6	3.6	0.8	19.2	8.3	14.1	5.1	0.7	0.2	1.9	10.6	2.9	24.2	54.5	12.9	14.2	10.0	10.5	15.4	
Czech Republic	806	29.9	2.6	3.1	27.0	8.6	4.1	5.1	0.6	0.2	1.2	3.7	0.6	13.1	75.4	35.6	9.2	4.0	30.4	40.9	
England	751	21.0	8.2	1.0	17.2	23.6	1.0	8.2	1.2	0.8	5.2	3.1	3.2	6.3	71.9	30.2	3.3	3.0	32.7	27.7	
Greece	726	9.0	4.0	0.6	22.4	17.0	4.0	5.7	0.4	0.4	1.3	7.3	2.6	25.4	57.0	13.7	12.2	13.2	13.7	13.6	
Hong Kong	1101	25.5	2.0	0.5	29.8	8.2	6.6	11.9	0.4	1.6	0.7	9.3	0.3	3.1	72.7	28.0	1.1	2.1	30.4	26.2	
Hungary	750	17.1	2.4	0.9	24.4	7.8	3.1	9.2	0.2	0.1	6.8	9.3	0.3	18.2	55.7	20.4	14.1	4.1	21.1	19.9	
Iceland	421	3.5	1.3	0.3	42.4	3.6	0.5	17.7	0.7	0.0	0.1	4.9	2.5	22.4	51.6	5.1	17.0	5.4	5.4	4.8	
Iran, Islamic Rep.	844	1.5	0.4	0.2	20.4	16.3	1.4	7.1	2.3	0.1	1.4	4.3	3.2	41.4	40.2	2.1	20.1	21.3	2.3	1.9	
Ireland	726	14.2	14.5	0.7	14.1	23.0	0.7	8.6	0.4	0.9	8.9	3.1	3.7	7.2	67.2	29.5	2.9	4.3	33.3	25.9	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	27.0	37.2	0.0	1.3	11.9	2.1	0.5	0.0	1.5	14.7	1.3	0.7	1.9	79.5	64.2	1.3	0.6	66.0	62.4	
Korea	709	35.8	18.9	6.7	4.7	27.8	1.2	0.3	1.5	0.2	0.5	2.2	0.3	0.0	95.1	61.4	0.0	0.0	63.5	59.8	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	523	13.9	8.7	1.7	48.3	3.2	0.7	6.1	0.7	0.0	0.9	2.6	0.7	12.4	76.5	24.3	5.0	7.4	23.5	25.3	
Netherlands	699	18.9	36.0	3.3	4.1	11.7	2.9	1.3	1.1	3.1	6.6	7.2	0.8	3.0	76.8	58.2	0.0	3.0	61.0	55.0	
New Zealand	638	14.3	9.1	1.0	15.1	20.9	0.1	8.1	0.8	1.6	6.0	7.8	2.3	13.1	60.5	24.3	7.9	5.1	27.2	21.9	
Norway	551	4.1	3.6	0.0	28.9	7.7	0.3	14.6	0.7	0.2	5.0	2.1	4.1	28.8	44.6	7.7	22.7	6.1	8.8	7.3	
Portugal	663	8.4	2.1	2.3	25.0	7.1	1.7	7.8	0.4	0.8	1.7	7.2	1.7	34.0	46.5	12.7	23.6	10.5	14.6	10.8	
Scotland	774	17.6	8.6	1.9	18.1	20.2	2.6	8.0	0.4	0.9	4.4	5.9	1.8	9.6	69.0	28.1	4.8	4.8	29.9	26.2	
Singapore	1739	22.2	5.9	0.1	13.8	24.7	0.3	5.0	3.6	2.0	7.2	8.7	4.3	2.1	67.1	28.3	0.4	1.7	30.3	26.6	
Slovenia	638	11.5	2.5	1.4	33.7	16.9	1.2	8.5	1.5	0.5	2.8	4.6	1.9	13.2	67.1	15.4	7.2	5.9	15.8	15.0	
Thailand	710	19.3	2.2	1.7	28.5	2.2	0.0	13.3	0.1	0.6	4.5	8.7	0.6	18.3	54.0	23.1	3.6	14.7	26.2	19.9	
United States	947	15.3	11.9	0.6	18.3	20.4	4.7	9.3	0.9	1.3	6.0	7.1	0.9	3.4	71.2	27.8	0.8	2.6	32.5	23.3	
INTERNATIONAL AVG	.	16.5	8.7	1.3	21.6	14.2	2.5	7.8	1.0	0.9	4.2	5.7	1.9	13.6	64.8	26.5	7.6	6.0	27.9	25.3	

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: W02  
 Write down one thing your heart does that helps the other parts of your body. (Life Science)  
 Difficulty: 638

COUNTRY	N	10	11	19	70	71	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
											REACH		% Right	% Right
											ED			
Australia	1187	6.2	44.3	3.4	12.6	3.2	14.2	2.4	13.7	54.0	7.1	6.5	54.2	53.8
Austria	630	0.8	24.4	1.1	8.7	17.9	16.4	5.0	25.7	26.3	7.6	18.1	24.3	28.7
Canada	1876	0.8	32.0	2.9	13.1	9.6	20.0	6.9	14.6	35.8	5.9	8.7	33.2	38.2
Cyprus	798	1.0	6.0	0.6	7.3	2.3	25.6	2.7	54.5	7.6	20.8	33.7	7.9	7.3
Czech Republic	806	2.0	25.0	3.5	4.1	0.5	27.2	4.8	32.9	30.5	11.9	21.0	28.0	33.1
England	751	1.1	38.7	5.3	15.8	8.1	12.7	5.8	12.4	45.2	4.1	8.2	43.5	46.8
Greece	726	1.6	13.1	1.8	5.1	11.7	18.2	7.1	41.4	16.5	18.6	22.9	13.3	19.1
Hong Kong	1099	0.0	1.3	4.8	9.4	2.8	47.8	2.9	31.0	6.1	2.0	28.9	6.8	5.6
Hungary	750	5.4	10.1	4.4	10.6	14.7	13.0	1.8	40.1	19.9	16.7	23.4	15.8	24.2
Iceland	421	0.0	16.6	3.9	10.6	9.0	17.8	3.8	38.3	20.5	20.6	17.7	20.0	21.1
Iran, Islamic Rep.	845	0.2	4.1	1.4	1.3	2.1	16.9	3.6	70.4	5.7	32.5	37.9	5.0	6.4
Ireland	726	0.1	33.5	0.6	21.3	6.6	12.9	9.7	15.2	34.2	4.0	11.2	32.0	36.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	0.5	18.8	1.2	20.7	4.1	36.8	6.2	11.7	20.6	1.9	9.8	17.7	23.2
Korea	709	6.7	16.7	4.7	32.8	4.4	30.1	4.6	0.0	28.1	0.0	0.0	19.0	35.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	523	4.0	17.6	2.5	9.4	13.9	23.1	0.1	29.4	24.1	10.1	19.3	20.0	28.3
Netherlands	699	0.4	26.5	0.7	37.8	12.3	17.0	1.2	4.1	27.6	2.3	1.8	21.8	34.8
New Zealand	638	0.3	39.4	1.5	20.5	4.4	12.7	3.2	18.0	41.2	10.3	7.6	40.5	41.9
Norway	551	0.3	28.8	0.7	6.7	3.8	10.9	3.4	45.3	29.8	27.0	18.3	31.2	29.5
Portugal	663	1.3	16.7	1.3	4.3	2.9	14.0	6.1	53.4	19.3	31.1	22.3	16.8	21.9
Scotland	774	0.5	34.0	2.8	18.2	8.6	18.0	4.1	13.8	37.3	6.8	6.9	35.3	39.3
Singapore	1739	1.1	20.7	0.0	18.1	5.8	40.4	6.5	7.3	21.8	1.3	6.0	21.5	21.9
Slovenia	638	7.5	36.9	1.7	6.1	6.5	7.3	4.5	29.5	46.1	10.1	19.3	45.0	47.2
Thailand	710	2.0	4.5	1.8	28.3	4.7	24.3	0.9	33.6	8.3	15.1	18.5	8.7	7.8
United States	947	0.8	53.0	1.3	16.8	6.7	13.1	1.5	6.8	55.1	1.6	5.2	56.6	53.6
INTERNATIONAL AVG	.	1.9	23.5	2.2	14.2	6.9	20.4	4.1	26.8	27.6	11.2	15.6	25.7	29.4

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: W03  
 Write down the reason why we get thirsty on a hot day and have to drink a lot. (Life Science)  
 Difficulty: 707

COUNTRY	N	NOT REACHED												OMIT	1.GIRL % Right	2.BOY % Right		
		10	11	12	13	19	70	71	72	76	79	90	99				V1	
Australia	1187	0.4	3.9	0.8	15.2	0.4	11.3	30.2	3.8	6.7	11.6	2.5	13.3	20.7	9.3	4.0	19.9	21.5
Austria	630	0.1	2.3	0.0	16.0	0.7	2.5	16.9	0.2	17.0	14.1	3.8	26.5	19.1	16.2	10.3	15.0	23.2
Canada	1876	0.4	1.9	0.7	15.3	2.6	8.1	20.0	1.3	10.1	16.9	5.3	17.5	20.9	10.9	6.5	18.0	23.0
Cyprus	798	0.9	0.6	0.3	9.0	0.5	4.0	6.5	2.6	13.4	9.2	1.7	51.4	11.2	41.6	9.8	11.7	10.6
Czech Republic	806	0.4	1.0	0.1	19.6	2.3	1.5	22.7	0.5	11.7	10.5	0.9	28.8	23.4	22.6	6.2	21.0	25.8
England	751	0.2	3.5	0.7	13.0	1.6	10.9	27.6	1.8	12.1	10.6	4.0	14.1	18.9	9.4	4.7	16.0	21.7
Greece	726	0.5	2.1	0.7	10.5	1.5	4.2	4.3	2.8	14.3	15.7	3.3	40.1	15.3	26.4	13.7	14.7	15.8
Hong Kong	1099	0.1	3.8	0.0	18.6	0.6	0.4	21.1	0.4	19.7	14.2	1.4	19.7	23.1	12.1	7.6	22.8	23.5
Hungary	750	0.4	0.8	0.0	10.3	1.3	8.9	28.2	0.3	6.3	6.8	1.8	34.8	12.8	27.2	7.6	11.9	14.1
Iceland	421	0.0	0.0	0.5	5.5	1.1	1.6	12.1	0.1	18.3	13.8	3.5	43.5	7.2	33.8	9.7	5.1	9.4
Iran, Islamic Rep.	845	0.0	0.3	0.0	4.3	0.4	0.3	2.8	0.8	14.7	16.9	2.7	56.8	5.0	45.1	11.6	5.4	4.6
Ireland	726	0.1	1.0	0.3	16.6	0.4	12.1	21.4	1.2	15.3	14.7	4.3	12.7	18.4	8.3	4.4	14.0	22.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	0.0	6.8	0.2	9.4	1.7	4.9	34.0	0.5	11.0	18.4	4.0	9.1	18.1	5.3	3.8	15.7	20.4
Korea	709	5.5	5.8	1.7	15.8	3.3	5.1	25.1	1.7	13.3	20.2	2.4	0.0	32.2	0.0	0.0	30.0	33.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	523	0.2	0.2	1.7	9.6	0.1	1.3	8.1	3.8	24.9	16.1	0.3	33.7	11.8	21.9	11.8	11.9	11.7
Netherlands	699	0.2	2.5	0.7	11.3	0.1	3.8	35.3	0.6	25.5	14.1	1.7	4.2	14.8	2.8	1.4	14.1	16.0
New Zealand	638	0.0	1.2	1.0	11.5	1.0	9.0	25.0	2.7	16.7	7.2	2.8	21.8	14.7	16.2	5.6	14.4	15.0
Norway	551	0.0	2.1	0.0	11.0	0.8	7.1	9.3	0.8	6.0	10.9	3.0	49.0	13.9	37.4	11.6	16.2	12.9
Portugal	663	0.4	1.5	0.5	7.6	0.2	4.3	7.3	0.9	20.4	6.1	2.7	48.2	10.1	40.8	7.5	6.6	13.6
Scotland	774	0.1	2.7	0.1	10.3	2.7	12.3	26.1	0.9	16.5	9.2	3.1	15.7	16.1	10.8	4.9	16.4	15.8
Singapore	1739	0.2	4.9	0.1	19.3	0.1	1.6	13.8	1.7	30.8	18.0	3.7	5.6	24.7	3.5	2.1	24.2	25.2
Slovenia	638	1.0	7.0	0.7	18.3	2.6	4.2	9.7	3.3	21.3	6.4	1.8	23.9	29.4	17.6	6.2	27.5	31.4
Thailand	710	0.0	0.2	0.0	12.5	0.4	7.9	10.6	5.2	19.5	10.8	0.7	32.3	13.1	26.6	5.7	15.9	10.1
United States	947	0.5	5.0	0.6	16.9	0.2	12.9	22.4	2.7	16.3	12.1	1.1	9.3	23.2	5.0	4.3	21.6	24.7
INTERNATIONAL AVG	.	0.5	2.5	0.5	12.8	1.1	5.8	18.4	1.7	15.9	12.7	2.6	25.5	17.4	18.8	6.7	16.2	18.6

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: W04  
 The human brain is inside the skull. Write down one advantage of the skull being thick and strong. (Life Science)  
 Difficulty: 583

COUNTRY	N	10	11	19	76	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
										REACH		% Right	% Right
										ED			
Australia	1187	40.3	6.9	1.7	5.3	20.4	1.9	23.5	48.9	10.8	12.7	45.1	53.0
Austria	630	27.1	10.7	1.4	0.9	19.9	5.5	34.6	39.2	17.3	17.3	37.2	41.7
Canada	1876	19.8	9.5	2.5	5.5	26.7	6.4	29.7	31.8	14.2	15.5	26.9	36.4
Cyprus	798	8.3	4.1	2.4	1.5	19.6	1.9	62.2	14.8	45.8	16.5	12.4	17.2
Czech Republic	806	28.8	6.5	3.9	4.9	15.9	2.6	37.4	39.2	25.8	11.6	33.6	44.9
England	751	27.9	6.9	2.2	4.2	21.0	10.5	27.4	37.0	12.0	15.3	32.9	40.9
Greece	726	19.3	11.2	2.9	2.4	14.1	3.8	46.1	33.5	29.1	17.0	25.7	39.8
Hong Kong	1099	35.4	9.6	8.4	0.4	18.1	2.1	26.1	53.3	13.5	12.6	54.2	52.5
Hungary	750	9.8	10.0	1.5	1.3	22.5	1.4	53.6	21.3	31.2	22.3	20.9	21.7
Iceland	421	9.5	10.4	4.3	0.9	22.7	3.3	48.9	24.2	38.5	10.4	23.8	24.7
Iran, Islamic Rep.	845	2.1	1.1	0.3	2.6	18.6	3.2	72.1	3.5	47.5	24.6	1.4	5.9
Ireland	726	22.7	5.2	0.9	2.9	23.1	13.5	31.8	28.8	10.0	21.8	24.9	32.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	35.0	14.9	0.9	2.7	19.3	10.1	17.0	50.8	6.2	10.8	46.3	55.1
Korea	709	41.2	20.5	8.2	6.5	19.0	4.1	0.5	70.0	0.0	0.5	65.0	73.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	523	19.9	5.2	3.6	0.9	30.4	0.2	39.8	28.7	26.5	13.4	25.8	31.4
Netherlands	699	20.1	12.3	0.9	3.4	45.3	6.3	11.7	33.3	3.4	8.3	31.4	35.7
New Zealand	638	26.1	6.4	0.5	9.2	21.0	3.0	33.8	33.0	18.9	14.9	30.4	35.2
Norway	551	10.7	9.3	0.1	2.9	13.1	4.7	59.4	20.0	42.3	17.0	15.5	23.4
Portugal	663	7.7	4.2	0.6	3.8	11.1	3.7	68.9	12.5	43.7	25.1	10.7	14.3
Scotland	774	30.0	4.5	2.2	5.7	28.3	4.0	25.3	36.7	13.9	11.4	34.1	39.3
Singapore	1739	20.4	5.0	1.1	6.7	48.8	6.6	11.5	26.5	3.9	7.6	25.2	27.7
Slovenia	638	28.0	5.2	1.9	1.5	14.1	4.4	44.9	35.1	21.5	23.5	34.6	35.5
Thailand	710	21.3	9.4	0.6	3.4	26.2	1.9	37.1	31.3	28.3	8.8	33.8	28.6
United States	947	30.6	8.3	1.8	7.9	29.9	4.1	17.4	40.7	5.7	11.7	37.2	44.0
INTERNATIONAL AVG	.	22.6	8.2	2.3	3.6	22.9	4.5	35.9	33.1	21.3	14.6	30.4	35.6

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: W05A

Write down two different things that people can do to help reduce air pollution. 1st reason. (Environment and other content)

Difficulty: 580

COUNTRY	N	10	11	12	13	14	15	19	70	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
														REACH		% Right	% Right
														ED			
Australia	1187	21.9	3.6	4.2	1.5	6.3	12.0	0.6	16.6	8.5	3.0	21.7	50.2	17.1	4.7	45.6	55.2
Austria	630	34.5	1.6	2.2	1.6	1.7	2.6	1.9	19.6	3.0	4.3	27.2	46.0	24.0	3.2	44.5	48.4
Canada	1876	16.7	1.4	0.8	2.2	3.6	5.6	0.7	30.4	8.0	4.4	26.3	30.9	22.3	4.0	33.2	29.9
Cyprus	798	3.3	0.7	0.2	3.1	6.0	2.0	1.4	7.6	11.6	2.8	61.2	16.8	55.3	5.9	13.5	20.1
Czech Republic	806	10.4	1.5	1.3	6.7	3.6	7.8	1.5	10.4	12.8	2.9	41.2	32.8	33.0	8.2	30.4	35.3
England	751	19.1	4.6	0.8	5.0	0.6	4.1	2.1	13.9	10.6	10.0	29.3	36.3	21.7	7.6	33.6	38.9
Greece	726	4.6	2.0	0.2	3.0	5.5	0.8	1.2	23.2	9.5	3.4	46.8	17.1	38.0	8.8	14.3	19.4
Hong Kong	1099	2.7	1.5	2.7	3.3	5.2	6.5	1.7	37.2	13.1	2.1	24.1	23.6	18.5	5.6	20.9	26.0
Hungary	750	4.3	6.9	0.6	2.2	0.6	5.9	4.7	9.0	12.9	0.7	52.2	25.2	45.7	6.5	25.4	24.4
Iceland	421	10.9	0.9	0.8	1.6	1.0	6.8	1.0	6.9	13.7	3.5	52.7	23.1	45.3	7.5	23.7	22.4
Iran, Islamic Rep.	845	1.1	0.2	0.0	0.3	3.6	4.0	0.6	9.9	19.9	2.5	57.8	9.9	55.0	2.8	10.6	9.2
Ireland	726	5.3	0.7	3.3	2.3	4.2	13.1	0.4	18.1	14.9	10.6	27.1	29.3	22.5	4.5	24.3	33.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	8.9	11.7	2.4	3.3	10.2	4.2	0.5	24.7	16.3	4.0	13.6	41.3	11.0	2.6	38.5	43.9
Korea	709	14.8	7.4	4.6	7.2	6.9	8.0	3.2	34.8	10.3	2.5	0.3	52.1	0.0	0.3	49.3	54.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	523	11.5	2.6	1.0	2.2	5.7	6.1	5.0	6.2	16.3	0.3	43.1	34.0	34.3	8.9	32.8	35.0
Netherlands	699	20.0	0.9	0.5	14.9	1.5	3.3	1.6	8.9	37.7	1.8	8.9	42.7	7.9	1.1	36.7	49.2
New Zealand	638	6.2	2.2	2.5	1.9	4.1	10.5	0.3	21.8	10.3	4.6	35.6	27.6	30.7	5.0	22.8	31.9
Norway	551	13.0	0.8	0.0	3.6	0.7	5.2	1.7	6.0	7.1	4.6	57.3	25.0	53.4	4.0	24.0	27.1
Portugal	663	1.1	0.6	0.3	3.1	1.1	4.5	1.0	17.2	8.7	2.7	59.6	11.8	54.9	4.7	10.9	12.7
Scotland	774	12.4	2.9	1.8	4.9	0.6	6.0	0.6	15.4	21.2	3.3	31.0	29.1	22.2	8.9	23.6	34.8
Singapore	1739	3.4	1.2	0.5	1.2	3.7	18.3	0.1	9.6	45.1	6.0	11.0	28.3	8.3	2.7	28.6	28.2
Slovenia	638	11.2	3.0	2.5	8.0	1.7	10.9	6.2	7.3	9.4	2.4	37.3	43.5	34.0	3.3	43.3	43.8
Thailand	710	2.1	1.0	6.8	0.7	10.6	1.8	6.7	7.8	20.6	1.1	40.9	29.7	34.8	6.0	31.4	27.9
United States	947	26.5	2.1	1.5	5.0	1.1	6.7	2.4	28.3	10.5	1.7	14.1	45.4	11.4	2.7	45.3	45.5
INTERNATIONAL AVG	.	11.1	2.6	1.7	3.7	3.7	6.5	2.0	16.3	14.7	3.6	34.2	31.3	29.2	5.0	29.5	33.2

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: W05B

Write down two different things that people can do to help reduce air pollution. 2nd reason. (Environment and other content)

Difficulty: 659

COUNTRY	N	NOT REACHED												OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	13	14	15	19	70	79	90	99	V1				
Australia	1187	10.0	3.9	4.5	2.2	3.6	9.9	0.9	9.7	6.6	2.9	45.9	34.9	20.9	25.0	34.6	35.3
Austria	627	12.1	0.4	2.5	6.5	1.4	5.0	1.5	15.0	8.3	4.0	43.3	29.4	27.0	16.3	24.8	34.8
Canada	1876	8.3	0.8	1.5	3.2	3.2	4.0	1.0	16.6	9.0	3.6	48.8	22.0	26.3	22.6	25.2	19.9
Cyprus	776	1.9	0.5	0.0	2.3	1.8	1.9	2.0	4.7	6.9	1.5	76.4	10.4	60.8	15.6	9.0	12.0
Czech Republic	806	3.3	1.3	1.3	5.0	1.3	5.1	1.9	3.5	8.1	1.4	67.9	19.2	41.0	26.9	17.6	20.7
England	751	4.0	1.6	0.9	5.3	1.6	4.2	3.8	8.5	11.0	4.4	54.6	21.4	29.3	25.3	18.0	24.8
Greece	723	4.2	0.5	0.5	4.7	1.7	0.7	1.4	8.1	10.3	0.4	67.6	13.6	46.4	21.1	10.6	16.1
Hong Kong	1090	1.9	0.3	1.7	4.6	3.0	3.4	2.6	24.3	6.9	0.7	50.7	17.4	24.1	26.7	14.8	19.8
Hungary	749	2.3	2.2	0.5	1.8	1.3	3.8	2.9	1.7	3.9	0.1	79.5	14.8	52.1	27.4	15.2	14.4
Iceland	418	4.7	0.5	0.7	2.2	0.1	3.3	0.0	2.2	10.0	2.2	74.1	11.5	51.7	22.4	12.4	10.6
Iran, Islamic Rep.	845	0.4	0.5	0.1	0.5	0.6	0.9	0.2	7.9	16.3	0.9	71.7	3.2	57.3	14.4	2.5	4.0
Ireland	726	1.8	0.8	3.5	2.0	2.3	7.5	0.4	12.3	14.3	3.1	51.9	18.4	27.1	24.8	17.2	19.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1071	2.2	6.9	3.0	3.8	9.9	3.8	0.4	15.3	6.4	3.0	45.2	30.0	13.6	31.6	26.9	33.0
Korea	709	7.6	5.6	5.1	5.0	5.5	8.4	2.1	18.7	23.9	6.6	11.4	39.4	0.3	11.1	38.1	40.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	522	1.6	0.9	1.1	2.7	1.8	4.8	3.2	1.4	7.7	0.1	74.7	16.1	42.2	32.5	16.1	16.1
Netherlands	699	12.1	2.0	1.1	10.4	1.5	2.8	3.6	7.1	38.5	1.8	19.2	33.4	8.9	10.2	27.4	39.8
New Zealand	638	1.7	1.3	1.9	0.8	2.3	8.1	0.7	13.0	11.4	1.5	57.3	16.7	35.6	21.6	17.0	16.5
Norway	551	5.6	0.3	0.6	3.1	1.1	3.3	1.4	5.6	6.1	4.8	68.0	15.5	57.3	10.6	13.9	17.7
Portugal	658	0.3	0.2	0.6	1.3	0.9	0.9	0.4	4.1	4.4	0.6	86.3	4.6	59.3	27.0	4.2	5.0
Scotland	774	4.3	1.7	2.3	3.5	0.8	5.0	0.6	8.6	18.1	1.9	53.2	18.2	31.0	22.2	17.9	18.5
Singapore	1735	2.7	1.5	1.2	1.3	3.0	11.1	0.2	9.5	33.6	5.9	30.0	21.0	10.7	19.3	19.1	22.7
Slovenia	638	4.6	1.6	0.9	5.9	1.4	5.8	4.0	6.1	9.3	0.9	59.5	24.3	37.0	22.5	22.4	26.3
Thailand	710	0.8	2.0	5.9	1.3	5.6	0.9	7.1	5.2	19.0	0.1	52.0	23.6	39.0	12.9	22.7	24.6
United States	947	16.8	2.1	2.3	4.7	1.5	6.8	3.0	15.3	12.8	1.4	33.2	37.4	14.1	19.1	40.1	34.8
INTERNATIONAL AVG	.	4.8	1.6	1.8	3.5	2.4	4.6	1.9	9.4	12.6	2.2	55.1	20.7	33.9	21.2	19.5	22.0

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: X01  
 Shown pictures of bowls of soup, one covered and one uncovered, which will stay hot longer? Why? (Physical Science)  
 Difficulty: 626

COUNTRY	N	20	21	22	29	10	11	12	19	70	71	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
																	REACH		% Right	% Right	
Australia	1181	44.5	3.3	0.8	0.1	27.0	2.3	12.2	0.3	1.5	2.1	0.1	0.3	5.4	90.6	48.7	3.0	2.4	52.0	45.1	
Austria	626	18.7	0.0	0.0	0.9	18.6	6.3	44.0	0.6	0.2	1.6	1.3	1.0	6.8	89.2	19.7	4.1	2.8	17.7	22.3	
Canada	1885	40.7	0.1	0.0	0.8	34.5	5.2	10.7	0.1	0.7	1.4	0.5	0.5	4.9	92.0	41.5	1.9	3.0	41.6	43.0	
Cyprus	787	13.0	1.4	0.2	2.6	32.6	2.6	28.0	0.6	0.4	2.2	1.6	0.2	14.4	81.2	17.3	8.7	5.7	17.1	17.6	
Czech Republic	824	21.6	0.0	0.0	0.7	29.3	3.1	31.4	0.9	0.8	0.7	0.3	1.1	10.2	87.0	22.3	6.1	4.0	21.2	23.6	
England	744	42.2	0.1	0.0	1.1	34.7	3.4	11.4	0.5	0.6	1.8	0.4	0.8	3.0	93.5	43.4	1.4	1.6	41.5	45.3	
Greece	737	23.9	0.1	0.0	1.8	27.7	4.6	26.6	0.2	1.8	2.8	0.8	0.5	9.1	85.0	25.9	3.5	5.6	20.6	30.5	
Hong Kong	1090	13.8	0.0	0.0	4.1	39.7	4.6	28.9	0.3	0.8	2.5	2.3	0.1	2.8	91.4	17.9	0.3	2.5	20.2	16.3	
Hungary	751	14.6	0.0	0.0	4.6	29.2	0.9	24.7	6.3	0.1	2.2	1.0	0.4	16.0	80.3	19.2	12.2	3.7	22.9	16.1	
Iceland	412	5.9	0.0	0.0	2.5	16.5	1.8	53.3	0.6	0.4	2.2	0.5	0.5	15.9	80.6	8.4	13.1	2.8	9.9	6.8	
Iran, Islamic Rep.	841	6.2	0.0	0.0	0.9	18.7	12.7	28.5	0.9	0.8	4.4	2.7	3.2	20.9	68.0	7.1	8.8	12.1	7.4	6.8	
Ireland	716	35.1	0.0	0.0	0.3	42.7	3.6	11.2	0.2	1.6	1.8	0.0	0.1	3.5	93.1	35.4	1.8	1.7	35.9	35.0	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1069	39.9	0.0	0.0	0.0	43.7	4.3	3.8	1.5	2.0	0.5	1.0	0.7	2.6	93.2	39.9	1.3	1.3	42.1	37.7	
Korea	700	51.8	7.7	3.5	4.3	25.5	1.7	3.1	0.1	0.3	0.6	0.7	0.3	0.5	97.6	67.4	0.0	0.5	64.1	69.8	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	512	9.2	0.0	0.0	2.1	27.4	1.3	46.7	2.2	0.2	0.6	2.0	0.2	8.0	89.0	11.3	4.2	3.8	13.5	9.0	
Netherlands	694	32.3	0.0	0.0	0.0	31.7	9.5	18.8	1.4	2.0	1.5	1.3	0.0	1.6	93.7	32.3	0.1	1.5	32.5	31.2	
New Zealand	634	33.9	0.0	0.0	2.8	35.6	3.5	11.4	0.7	3.0	1.2	0.6	0.1	7.1	87.9	36.7	3.4	3.7	38.4	35.0	
Norway	545	20.4	0.0	0.0	0.2	25.7	3.5	27.3	0.3	0.8	2.3	0.6	0.5	18.4	77.3	20.6	15.4	3.0	23.0	19.6	
Portugal	662	7.7	0.0	0.3	1.2	28.6	4.9	35.5	0.2	0.8	2.6	0.4	0.1	17.5	78.5	9.2	13.3	4.2	5.7	12.9	
Scotland	786	27.9	0.0	0.0	2.5	42.0	5.7	14.0	0.3	1.6	1.6	0.6	0.1	3.8	92.2	30.4	1.8	2.1	31.0	29.8	
Singapore	1752	30.6	1.3	1.1	3.8	39.7	5.8	7.7	0.8	3.6	3.0	0.9	0.6	1.0	90.9	36.8	0.3	0.7	37.0	36.5	
Slovenia	632	21.7	0.0	0.0	2.5	19.9	5.2	40.6	0.3	1.2	2.7	0.3	0.5	5.2	90.2	24.2	3.7	1.5	24.7	23.6	
Thailand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
United States	952	39.7	0.0	0.0	4.7	31.6	4.4	11.3	0.2	2.6	2.4	0.8	0.4	1.9	91.9	44.4	0.5	1.4	47.9	41.1	
INTERNATIONAL AVG	.	25.9	0.6	0.3	1.9	30.5	4.4	23.1	0.9	1.2	1.9	0.9	0.5	7.9	87.6	28.7	4.7	3.1	29.0	28.5	

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: X02  
 Write down one reason why animals could not live in a world without plants. (Life Science)  
 Difficulty: 453

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	13	19	76	79	90	99	V1				
Australia	1181	5.4	45.5	14.1	5.4	6.1	5.4	5.6	1.0	11.3	76.6	3.6	7.7	81.0	71.9
Austria	626	2.6	48.4	5.1	2.9	5.8	4.7	6.7	3.5	20.3	64.7	5.1	15.2	68.7	60.7
Canada	1885	5.7	48.1	6.1	4.2	3.9	7.6	7.9	2.8	13.6	68.0	2.8	10.9	69.0	67.7
Cyprus	786	6.1	34.5	3.4	4.4	1.4	8.8	9.0	2.0	30.3	49.8	11.1	19.2	50.2	49.6
Czech Republic	824	2.3	40.1	11.9	2.7	2.6	12.1	5.1	1.4	21.9	59.5	8.4	13.5	62.7	55.9
England	744	3.4	55.6	7.0	2.1	8.5	4.4	4.9	4.8	9.3	76.6	1.9	7.4	77.5	75.8
Greece	737	5.0	38.8	2.3	0.1	0.7	3.3	13.6	3.5	32.7	46.9	4.9	27.7	46.4	47.5
Hong Kong	1091	2.1	35.5	14.6	1.1	1.5	1.5	17.8	0.6	25.3	54.7	0.3	25.0	57.6	52.8
Hungary	751	1.4	32.3	5.3	5.6	6.2	10.5	4.6	0.6	33.5	50.8	14.5	18.9	57.6	43.1
Iceland	413	4.9	33.4	3.1	0.5	2.0	4.4	6.9	3.0	41.8	43.9	14.8	27.0	46.1	41.6
Iran, Islamic Rep.	841	1.4	32.7	0.2	0.1	3.9	4.1	11.5	3.4	42.7	38.4	12.1	30.6	42.2	33.8
Ireland	716	2.4	57.6	4.6	1.1	2.3	12.9	5.7	2.6	10.8	68.1	2.3	8.4	72.7	63.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1069	5.8	59.2	14.4	3.1	2.3	1.9	4.7	2.9	5.7	84.8	1.6	4.1	86.2	83.5
Korea	700	29.9	31.6	14.2	1.5	3.9	1.9	15.4	1.1	0.5	81.2	0.1	0.3	79.8	82.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	512	4.7	41.1	5.9	2.0	8.6	7.6	12.1	0.2	17.8	62.4	5.4	12.4	64.5	60.3
Netherlands	694	2.6	52.9	15.7	5.6	1.7	12.7	4.5	0.8	3.5	78.5	0.1	3.3	80.3	76.5
New Zealand	634	4.6	41.5	12.6	5.8	3.8	11.7	5.0	2.6	12.5	68.2	4.4	8.1	71.5	64.7
Norway	545	2.8	38.6	6.7	2.1	1.0	3.4	4.2	3.3	37.9	51.2	16.4	21.5	55.3	47.5
Portugal	662	1.0	27.3	14.8	3.8	0.3	7.7	7.5	1.7	35.8	47.2	16.3	19.5	46.6	47.8
Scotland	786	4.2	55.7	4.0	0.9	2.1	12.3	7.3	1.7	11.8	66.9	2.6	9.2	72.3	61.2
Singapore	1752	6.1	49.0	11.2	1.6	2.4	11.1	12.5	2.0	4.1	70.3	0.4	3.7	73.5	67.2
Slovenia	632	5.3	50.3	13.7	4.0	1.6	5.1	4.1	1.0	14.8	75.0	4.6	10.2	76.0	74.1
Thailand	765	2.1	26.3	3.7	1.4	5.5	9.4	24.7	1.9	25.2	38.9	1.3	23.8	41.3	36.4
United States	952	7.6	53.9	7.7	4.9	1.1	11.6	4.8	0.9	7.4	75.2	0.5	6.9	78.3	72.3
INTERNATIONAL AVG	.	5.0	42.9	8.4	2.8	3.3	7.3	8.6	2.1	19.6	62.4	5.7	13.9	64.9	59.9

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: X03

Write as completely as possible why large oil spills in rivers and seas are harmful to the environment. (Environment and other content)

Difficulty: 686

COUNTRY	N	20	21	29	10	11	12	13	19	70	71	72	79	90	99	V1	V2	NOT REACH		1.GIRL % Right	2.BOY % Right	
																		ED	OMIT			
Australia	1181	6.5	15.6	1.0	31.4	7.6	0.2	0.1	1.6	2.1	4.2	0.4	11.7	1.8	15.7	64.2	23.2	4.9	10.8	25.2	20.9	
Austria	626	3.9	5.6	1.3	19.7	7.4	0.7	0.0	3.4	0.8	11.9	0.6	10.0	5.8	28.9	41.9	10.8	6.8	22.1	10.0	11.9	
Canada	1885	9.0	9.6	1.0	24.2	8.0	0.5	0.1	5.6	0.5	7.4	0.3	10.6	4.3	18.9	58.0	19.6	4.8	14.1	21.8	17.0	
Cyprus	786	1.6	4.4	3.4	7.5	3.7	1.1	0.6	10.0	0.5	2.7	0.9	11.9	2.7	49.1	32.3	9.4	16.7	32.4	7.5	11.4	
Czech Republic	824	6.1	4.1	2.0	19.9	4.2	1.0	0.0	8.5	0.2	5.8	0.9	11.1	2.9	33.3	45.8	12.2	11.9	21.5	12.9	11.5	
England	744	6.6	10.7	1.5	29.9	2.8	0.4	0.0	4.8	1.7	5.7	0.1	8.6	5.8	21.3	56.7	18.8	3.6	17.7	16.4	21.1	
Greece	737	5.2	6.8	2.3	17.9	6.4	0.5	0.8	3.0	0.3	5.9	0.3	7.0	3.5	40.1	42.8	14.3	7.5	32.6	14.0	14.6	
Hong Kong	1080	0.2	3.0	0.2	11.1	6.0	3.9	0.0	1.8	2.8	4.9	0.1	28.8	1.0	36.3	26.2	3.3	0.7	35.7	3.6	3.2	
Hungary	751	1.4	12.8	0.8	32.6	9.4	0.9	0.1	5.1	0.0	0.1	0.6	2.3	0.6	33.2	63.2	15.1	18.4	14.8	15.1	15.5	
Iceland	413	1.1	3.2	2.0	9.6	3.5	0.8	0.0	4.6	2.5	8.2	0.0	12.2	3.7	48.6	24.8	6.3	21.9	26.7	6.5	6.0	
Iran, Islamic Rep.	841	2.2	0.6	0.4	1.7	8.6	0.7	0.0	2.7	0.0	0.5	0.9	16.2	3.3	62.1	16.9	3.3	17.9	44.2	3.3	3.2	
Ireland	716	2.7	11.6	2.2	33.1	5.9	0.2	0.2	2.6	0.9	3.5	0.1	14.2	4.2	18.5	58.5	16.5	3.6	14.9	18.4	14.8	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1069	14.0	28.4	0.1	16.8	15.9	0.8	0.1	1.7	0.0	1.9	0.9	9.2	2.6	7.6	77.7	42.4	2.2	5.4	42.9	41.9	
Korea	700	38.5	10.7	1.9	9.4	11.6	0.9	3.7	6.4	0.4	3.6	1.0	8.6	2.8	0.5	83.2	51.1	0.1	0.3	52.3	50.2	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	512	6.9	3.0	5.8	14.5	7.5	0.3	0.2	6.6	0.5	8.1	0.3	15.8	0.5	30.0	44.8	15.7	8.4	21.6	16.5	14.8	
Netherlands	694	9.0	0.6	0.1	41.3	4.9	0.8	0.1	12.0	1.8	5.5	0.9	13.0	3.7	6.3	68.9	9.8	0.1	6.2	12.1	7.0	
New Zealand	634	7.4	15.0	1.5	21.1	5.7	0.3	0.1	1.9	3.3	4.3	1.2	11.9	3.2	23.1	53.0	23.9	6.0	17.1	25.8	22.0	
Norway	545	2.8	6.7	0.6	18.5	4.5	0.9	0.0	2.9	0.4	8.7	0.3	6.3	3.3	44.2	36.8	10.1	24.1	20.0	12.4	8.0	
Portugal	662	3.6	12.8	1.1	5.2	4.4	1.9	0.3	5.2	0.7	4.4	0.4	6.9	2.5	50.7	34.5	17.5	23.6	27.2	17.9	17.0	
Scotland	786	7.1	5.9	1.1	31.3	3.5	0.3	0.0	5.4	1.7	5.9	0.5	10.8	3.6	23.1	54.6	14.1	4.8	18.4	13.9	14.0	
Singapore	1752	5.0	4.5	0.3	15.5	9.7	2.9	0.1	1.4	0.5	13.4	1.6	29.5	4.0	11.6	39.4	9.8	0.6	11.0	8.4	11.2	
Slovenia	633	3.7	5.6	2.6	16.9	8.2	2.9	1.1	8.9	0.8	5.2	1.5	9.3	2.2	31.0	49.9	11.9	6.4	24.6	12.8	10.9	
Thailand	765	2.6	5.4	0.7	8.6	10.5	1.5	0.0	1.1	3.2	6.3	0.5	25.6	2.6	31.3	30.5	8.8	10.5	20.7	9.6	7.9	
United States	952	14.1	7.1	5.3	29.6	4.8	0.6	0.0	7.1	1.2	3.5	0.3	13.3	2.7	10.3	68.7	26.5	0.8	9.5	30.0	23.2	
INTERNATIONAL AVG	.	6.7	8.1	1.6	19.5	6.9	1.0	0.3	4.8	1.1	5.5	0.6	12.7	3.0	28.2	48.9	16.4	8.6	19.6	17.1	15.8	

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: X04  
 Shown pictures of stages in a frog's growth, indicate order of the stages. (Life Science)  
 Difficulty: 395

COUNTRY	N	10	79	90	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
							ED	OMIT		
Australia	1181	81.2	6.5	0.9	11.4	81.2	6.1	5.4	81.7	80.6
Austria	626	80.5	4.8	3.8	10.9	80.5	7.5	3.4	82.7	78.3
Canada	1885	80.8	5.0	3.0	11.1	80.8	7.9	3.2	82.7	80.7
Cyprus	786	42.5	21.6	1.0	34.9	42.5	21.9	13.0	39.6	45.6
Czech Republic	823	73.4	4.5	6.5	15.6	73.4	14.1	1.5	74.4	72.4
England	744	81.5	5.0	4.4	9.1	81.5	5.8	3.4	81.2	81.7
Greece	737	67.8	14.6	2.1	15.5	67.8	9.9	5.6	63.4	71.6
Hong Kong	1089	92.6	5.9	0.0	1.5	92.6	0.8	0.7	92.7	92.6
Hungary	751	63.3	8.5	0.2	28.0	63.3	23.1	4.9	66.2	61.2
Iceland	413	47.5	18.5	1.1	32.9	47.5	27.6	5.3	50.5	44.3
Iran, Islamic Rep.	841	7.6	33.0	7.8	51.7	7.6	22.3	29.3	7.8	7.2
Ireland	716	79.4	10.9	2.8	6.9	79.4	5.7	1.2	81.8	77.2
Israel	.	.	.	.	.	.	.	.	.	.
Japan	1069	90.6	4.8	0.2	4.3	90.6	3.4	0.9	89.3	92.0
Korea	700	90.9	7.3	1.0	0.7	90.9	0.1	0.6	89.0	92.4
Kuwait	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	511	61.3	17.0	1.1	20.5	61.3	11.0	9.5	62.8	59.8
Netherlands	694	93.1	3.2	0.2	3.6	93.1	0.2	3.3	92.6	93.4
New Zealand	634	73.4	10.3	3.9	12.5	73.4	7.8	4.7	78.4	68.1
Norway	545	58.0	6.2	1.9	33.8	58.0	28.1	5.8	60.0	56.9
Portugal	662	50.1	10.4	3.6	36.0	50.1	27.7	8.2	51.3	48.8
Scotland	786	78.6	7.4	1.5	12.5	78.6	8.3	4.2	78.3	79.5
Singapore	1752	90.3	7.2	1.1	1.4	90.3	0.7	0.7	90.4	90.3
Slovenia	633	71.6	11.1	1.7	15.6	71.6	10.3	5.3	71.4	71.8
Thailand	765	62.2	8.6	0.0	29.2	62.2	12.6	16.6	64.1	60.2
United States	952	86.9	9.0	0.5	3.6	86.9	1.5	2.1	86.8	86.9
INTERNATIONAL AVG	.	71.0	10.1	2.1	16.8	71.0	11.0	5.8	71.6	70.6

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: X05 KEY: B  
 Identify characteristics of fish with respect to backbone and environment. (Life Science)  
 Difficulty: 534

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1181	5.1	58.3	0.8	11.2	24.6	58.3	0.0	9.0	15.6	55.9	60.9
Austria	626	2.9	41.2	1.8	20.7	33.3	41.2	12.4	9.0	11.9	40.7	41.1
Canada	1885	2.6	46.4	1.0	14.3	35.6	46.4	9.5	9.7	16.4	44.9	47.9
Cyprus	786	3.4	35.5	1.3	3.7	56.1	35.5	12.9	26.1	17.2	38.6	32.2
Czech Republic	824	2.5	55.2	0.6	3.0	38.6	55.2	15.1	15.0	8.5	54.9	55.7
England	744	1.8	53.6	0.5	14.6	29.5	53.6	0.0	7.9	21.5	54.4	52.7
Greece	737	2.7	48.1	0.6	6.4	42.2	48.1	10.5	11.5	20.1	45.4	50.5
Hong Kong	1092	2.1	54.5	0.7	12.8	29.9	54.5	15.0	1.1	13.8	53.8	55.1
Hungary	751	1.2	43.9	0.9	9.6	44.4	43.9	0.0	26.7	17.7	45.2	43.1
Iceland	413	4.5	35.1	1.7	10.2	48.5	35.1	4.9	30.0	13.6	33.2	37.0
Iran, Islamic Rep.	841	6.6	29.5	3.1	6.1	54.7	29.5	21.3	25.0	8.3	29.9	29.0
Ireland	716	2.5	51.9	1.6	13.8	30.1	51.9	16.6	6.1	7.5	49.6	54.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1069	5.6	78.5	0.8	7.5	7.7	78.5	1.6	4.3	1.9	79.1	77.9
Korea	700	1.9	69.6	2.0	10.2	16.2	69.6	0.0	0.4	15.8	66.5	72.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	478	2.1	44.2	4.7	13.8	35.2	44.2	0.0	15.2	20.0	45.3	43.1
Netherlands	694	2.0	37.1	2.2	29.8	28.9	37.1	28.6	0.2	0.0	37.1	37.2
New Zealand	634	3.9	52.5	1.1	12.3	30.2	52.5	0.0	11.3	18.9	54.6	50.2
Norway	545	1.8	36.8	1.0	8.1	52.4	36.8	4.3	31.9	16.2	37.7	36.8
Portugal	662	2.7	27.9	2.2	14.8	52.5	27.9	0.0	30.5	22.0	27.8	28.0
Scotland	785	3.0	49.5	0.9	13.6	33.0	49.5	11.7	10.7	10.6	49.1	50.5
Singapore	1752	3.3	58.1	1.9	10.7	26.1	58.1	0.0	1.1	25.0	59.5	56.6
Slovenia	633	4.3	58.3	1.1	2.1	34.3	58.3	12.7	12.7	8.9	53.4	63.2
Thailand	765	4.7	41.2	2.7	15.6	35.8	41.2	0.0	17.2	18.6	42.4	40.0
United States	952	2.7	47.5	1.2	20.1	28.5	47.5	7.5	3.0	18.0	45.5	49.4
INTERNATIONAL AVG	.	3.2	48.1	1.5	11.9	35.3	48.1	7.7	13.1	14.5	47.7	48.5

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

Item: Y01  
 Why do the sun and Moon appear the same size when you look at them from Earth? (Earth Science)  
 Difficulty: 693

COUNTRY	N	NOT REACHED											OMIT	1.GIRL % Right	2.BOY % Right		
		10	19	70	71	72	73	74	76	79	90	99				V1	
Australia	1168	28.9	0.6	4.1	2.5	21.6	1.0	1.4	2.3	21.0	2.0	14.7	29.6	6.0	8.7	23.3	36.1
Austria	622	26.7	2.4	4.4	1.8	15.2	2.1	1.8	1.7	23.1	5.0	15.8	29.1	5.7	10.1	26.3	31.0
Canada	1889	27.5	1.1	2.9	2.3	21.1	1.4	1.7	2.6	23.5	3.9	12.0	28.6	5.2	6.8	22.9	35.5
Cyprus	810	5.5	0.1	4.9	0.2	17.7	0.7	4.5	4.1	24.2	0.9	37.2	5.6	19.3	17.8	3.6	7.5
Czech Republic	814	19.3	0.9	2.8	1.3	19.7	0.7	1.8	3.5	21.0	2.9	26.3	20.2	11.5	14.8	14.2	26.7
England	750	25.6	0.6	4.7	1.3	24.0	0.8	2.1	2.8	20.9	4.4	12.9	26.2	5.6	7.3	22.8	29.5
Greece	743	6.8	2.5	4.7	1.0	19.3	0.9	2.5	4.3	15.5	2.3	40.2	9.3	14.9	25.4	8.4	10.1
Hong Kong	1091	21.3	0.1	2.4	0.6	17.8	0.9	1.4	5.0	26.2	4.3	20.0	21.5	7.2	12.8	17.3	24.6
Hungary	757	15.1	0.8	3.7	1.1	19.1	1.9	0.5	5.2	24.4	1.9	26.4	15.9	12.7	13.7	13.2	19.5
Iceland	414	19.3	1.2	1.4	3.4	12.0	2.1	2.1	1.9	16.7	5.5	34.4	20.5	19.3	15.1	14.8	25.8
Iran, Islamic Rep.	829	6.5	2.1	1.2	0.2	22.3	0.5	1.8	2.6	17.9	8.5	36.5	8.6	16.7	19.8	9.4	7.5
Ireland	721	23.6	1.3	2.4	2.1	26.4	0.8	0.9	2.7	22.7	4.9	12.2	24.9	5.1	7.1	19.4	29.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1083	30.3	0.0	1.2	2.1	9.4	0.8	3.5	2.1	43.0	2.3	5.5	30.3	1.8	3.7	28.3	32.4
Korea	689	32.6	0.7	3.7	0.7	30.4	1.8	4.1	0.4	22.7	2.5	0.4	33.4	0.1	0.3	31.3	35.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	510	21.4	0.8	0.8	0.4	9.6	6.7	0.9	2.9	32.2	0.5	23.9	22.2	10.6	13.3	20.1	24.3
Netherlands	709	23.3	0.2	4.4	4.6	27.3	3.3	1.6	2.4	24.9	2.9	5.2	23.5	1.2	3.9	18.5	28.7
New Zealand	623	24.9	0.1	3.2	1.7	22.0	0.4	1.8	3.6	23.4	4.0	14.9	25.0	4.6	10.4	21.9	28.4
Norway	550	23.7	0.2	2.3	0.3	7.6	4.3	0.8	4.3	16.7	4.0	35.8	23.9	21.4	14.3	16.2	31.5
Portugal	648	9.0	1.4	2.7	1.0	12.8	0.8	2.3	4.4	23.2	5.0	37.5	10.3	21.9	15.6	9.9	10.7
Scotland	775	19.6	1.6	3.3	1.5	20.9	0.3	2.6	7.1	24.9	3.9	14.3	21.1	6.0	8.3	16.6	26.0
Singapore	1776	19.6	0.2	2.9	1.3	37.6	1.3	0.5	4.2	26.4	2.0	4.1	19.8	1.4	2.7	16.3	23.1
Slovenia	625	20.1	2.1	4.1	1.3	22.8	3.7	2.5	2.9	20.4	1.8	18.3	22.2	5.6	12.8	18.4	25.8
Thailand	692	12.7	0.3	3.8	2.2	15.7	1.3	6.2	5.5	28.0	0.4	24.0	13.0	10.9	13.2	12.4	13.6
United States	956	20.5	0.4	3.0	1.9	34.9	0.1	1.4	4.8	24.2	1.4	7.3	20.9	1.7	5.5	16.6	24.6
INTERNATIONAL AVG	.	20.2	0.9	3.1	1.5	20.3	1.6	2.1	3.5	23.6	3.2	20.0	21.1	9.0	11.0	17.6	24.5

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: Y02A

Write down two changes that occur in children's bodies as they become adults. 1st answer (Life Science)

Difficulty: 498

COUNTRY	N	NOT REACHED												OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	19	70	71	72	76	79	90	99	V1				
Australia	1168	49.1	7.1	2.8	2.4	2.6	0.6	0.6	3.0	10.8	2.5	18.4	61.5	10.3	8.1	62.9	60.1
Austria	622	33.5	23.1	2.3	3.3	0.6	0.3	0.0	1.9	10.9	4.9	19.1	62.2	9.7	9.4	66.4	58.3
Canada	1889	44.2	6.1	4.3	5.2	2.1	1.2	0.2	4.5	11.4	4.4	16.4	59.8	7.7	8.7	59.2	60.7
Cyprus	810	23.0	2.8	2.1	2.7	1.2	0.4	3.4	3.2	13.5	2.4	45.4	30.6	30.6	14.9	29.3	32.2
Czech Republic	814	34.3	6.9	2.3	0.5	7.2	5.4	0.1	4.9	10.6	2.7	25.1	44.0	16.9	8.2	43.0	45.0
England	750	45.4	5.0	3.2	6.5	1.3	0.4	0.7	0.9	12.6	5.9	18.2	60.1	9.5	8.7	60.5	59.7
Greece	743	34.3	9.7	5.8	1.7	0.4	1.0	0.8	1.6	9.2	2.8	32.7	51.5	22.1	10.6	51.5	51.6
Hong Kong	1093	43.0	6.0	2.5	2.3	0.7	0.6	0.1	5.6	7.4	3.7	28.2	53.8	12.8	15.4	55.9	52.4
Hungary	757	36.3	3.7	0.2	3.5	5.8	1.9	0.2	1.0	10.4	1.9	35.2	43.6	19.2	16.0	40.0	47.9
Iceland	414	37.4	3.7	1.0	1.1	0.8	1.5	0.5	1.8	9.2	2.3	40.7	43.2	25.8	14.9	42.3	44.0
Iran, Islamic Rep.	831	4.6	2.7	1.1	0.3	1.1	1.7	0.0	0.9	22.4	8.7	56.6	8.6	29.6	27.0	7.9	9.5
Ireland	721	36.7	1.9	0.3	20.3	1.1	0.6	0.6	1.0	11.8	5.7	20.0	59.2	8.0	12.0	60.5	58.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1083	70.6	8.2	0.3	4.3	1.1	0.7	0.5	1.5	4.5	1.6	6.8	83.4	3.1	3.8	82.5	84.2
Korea	689	61.8	16.4	2.9	1.3	1.4	0.2	1.6	0.6	9.2	4.3	0.4	82.4	0.4	0.0	81.5	83.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	510	39.6	2.0	3.1	2.3	3.9	1.0	0.2	1.0	14.0	0.7	32.1	47.1	18.7	13.4	46.0	48.2
Netherlands	709	35.2	22.0	9.6	11.2	1.1	0.8	2.7	1.6	8.0	2.0	5.8	78.0	2.7	3.1	76.2	79.2
New Zealand	623	45.3	4.6	0.9	2.8	3.1	0.7	1.0	4.1	13.2	4.8	19.3	53.7	9.9	9.5	57.8	48.6
Norway	550	40.2	7.3	0.5	2.6	0.7	1.4	0.3	0.7	6.3	3.3	36.9	50.5	27.7	9.1	50.6	49.5
Portugal	648	29.3	3.2	2.4	2.0	0.9	1.3	0.2	2.5	10.3	2.8	45.1	36.9	31.4	13.8	35.1	38.7
Scotland	775	46.5	5.3	2.7	5.2	1.0	0.5	1.0	2.4	15.5	3.4	16.6	59.6	9.8	6.8	58.9	60.4
Singapore	1776	54.0	1.6	0.2	0.5	0.5	0.1	0.8	4.5	28.3	2.6	6.7	56.4	2.2	4.5	57.7	55.2
Slovenia	625	32.3	4.7	1.8	4.7	1.7	1.9	0.2	2.2	24.0	2.6	23.8	43.5	9.5	14.3	40.2	46.7
Thailand	692	20.4	5.4	0.2	1.8	4.2	0.5	0.0	5.5	33.9	0.4	27.8	27.8	21.6	6.3	28.5	27.0
United States	956	53.7	4.1	3.0	1.5	2.2	1.1	0.2	3.8	17.9	3.3	9.3	62.2	4.2	5.1	66.2	58.8
INTERNATIONAL AVG	.	39.6	6.8	2.3	3.7	1.9	1.1	0.7	2.5	13.5	3.3	24.4	52.5	14.3	10.1	52.5	52.5

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: Y02B

Write down two changes that occur in children's bodies as they become adults. 2nd answer (Life Science)

Difficulty: 637

COUNTRY	N	NOT REACHED												OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	19	70	71	72	76	79	90	99	V1				
Australia	1168	21.5	8.6	3.4	2.1	5.2	1.4	1.3	2.8	15.9	1.0	37.0	35.5	12.7	24.3	35.1	36.0
Austria	622	20.0	18.4	2.3	1.7	1.5	1.5	0.0	2.9	12.9	5.2	33.4	42.5	12.4	21.1	44.2	40.6
Canada	1889	23.5	4.7	3.9	3.1	5.2	3.3	0.4	3.8	15.0	2.6	34.7	35.1	11.1	23.5	33.2	37.9
Cyprus	810	9.2	2.0	3.1	1.9	1.7	0.1	1.4	1.2	15.9	0.8	62.5	16.3	39.0	23.5	13.9	19.0
Czech Republic	814	11.4	7.3	1.2	0.5	9.4	6.1	0.1	4.6	18.1	1.3	39.9	20.5	19.8	20.1	20.4	20.5
England	750	15.9	4.9	4.1	4.1	3.1	0.7	2.0	1.9	25.1	3.2	35.0	29.0	14.3	20.7	28.6	29.5
Greece	743	11.7	5.4	3.7	2.2	1.0	1.4	0.3	0.6	20.7	1.4	51.5	23.0	27.2	24.3	24.7	21.4
Hong Kong	1089	17.0	5.7	4.0	0.6	1.3	0.3	0.2	3.1	11.2	3.6	53.0	27.4	17.9	35.1	27.5	27.4
Hungary	757	15.3	5.3	8.6	2.0	5.6	2.1	0.4	8.4	6.7	0.8	44.6	31.3	25.8	18.8	31.3	32.2
Iceland	414	13.8	3.9	0.0	0.8	3.8	1.3	0.5	1.5	7.9	0.7	65.9	18.5	31.9	34.0	13.0	23.5
Iran, Islamic Rep.	831	1.8	3.1	1.2	0.6	0.6	1.0	0.0	0.3	12.6	4.7	74.3	6.6	40.6	33.6	6.3	6.9
Ireland	721	20.9	3.1	1.3	7.7	3.1	0.7	1.2	1.7	17.8	1.5	41.0	33.0	11.5	29.5	30.1	35.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1083	7.0	7.9	0.7	2.2	5.4	1.6	1.7	2.6	4.4	1.2	65.1	17.9	4.4	60.8	17.6	18.2
Korea	689	27.0	13.4	4.3	2.9	3.8	1.6	2.5	1.9	25.3	6.7	10.7	47.6	0.4	10.3	48.3	47.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	510	9.6	1.8	1.5	3.5	3.4	1.6	0.2	0.0	8.4	0.4	69.7	16.4	26.4	43.2	16.8	15.9
Netherlands	709	18.8	18.2	8.5	5.8	3.9	5.1	3.1	2.6	14.7	1.0	18.2	51.3	3.8	14.4	52.8	49.7
New Zealand	623	16.3	4.9	1.7	1.0	5.9	2.8	1.2	3.6	20.1	1.1	41.3	23.9	14.1	27.2	25.3	22.3
Norway	550	15.1	7.1	0.4	2.3	3.0	1.8	0.2	1.9	8.9	2.8	56.5	24.8	32.7	23.8	24.2	25.4
Portugal	647	7.9	2.2	1.9	1.5	1.0	0.2	0.0	2.8	6.3	0.0	76.1	13.5	38.3	37.7	11.9	15.0
Scotland	775	21.0	4.6	2.5	2.9	4.5	1.0	3.1	1.5	23.3	1.2	34.4	30.9	13.1	21.3	30.3	31.8
Singapore	1776	38.8	1.4	0.5	0.3	1.4	0.3	0.7	1.4	23.0	3.8	28.4	41.0	3.0	25.5	43.7	38.4
Slovenia	625	12.0	3.2	1.9	4.6	4.0	0.6	0.5	2.1	22.6	0.9	47.5	21.8	16.2	31.3	20.9	22.6
Thailand	692	11.9	4.7	0.1	0.8	2.2	0.7	0.0	1.3	32.5	0.4	45.4	17.5	25.9	19.5	19.6	15.3
United States	955	27.4	4.3	1.5	2.1	5.5	2.6	0.5	4.2	22.1	2.5	27.3	35.3	5.2	22.1	35.0	35.6
INTERNATIONAL AVG	.	16.5	6.1	2.6	2.4	3.6	1.7	0.9	2.5	16.3	2.0	45.6	27.5	18.7	26.9	27.3	27.8

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: Y03A  
 Besides escaping, what are two ways animals protect themselves? 1st answer (Life Science)  
 Difficulty: 510

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	13	19	76	79	90	99	V1				
Australia	1168	16.0	8.8	29.2	5.7	0.4	16.7	3.6	1.8	17.7	60.2	14.9	2.7	58.2	62.2
Austria	622	3.9	4.0	38.3	3.9	1.4	25.7	2.9	4.0	15.8	51.6	13.5	2.3	47.2	55.4
Canada	1889	14.7	8.4	33.0	2.2	1.2	19.1	4.6	3.2	13.6	59.6	12.3	1.3	60.3	59.0
Cyprus	802	1.9	1.5	14.3	0.4	4.0	9.4	18.1	2.2	48.1	22.2	43.0	5.1	19.1	25.8
Czech Republic	814	11.1	9.4	22.2	2.7	0.6	21.6	1.9	2.0	28.6	46.0	21.8	6.8	45.4	46.6
England	750	10.9	4.9	33.5	3.2	0.3	20.7	3.7	3.1	19.7	52.8	16.4	3.4	50.0	55.6
Greece	743	4.8	6.1	18.0	4.8	4.8	8.4	10.0	2.7	40.4	38.5	30.5	9.8	35.0	41.9
Hong Kong	1090	4.7	2.7	17.3	9.8	0.5	29.1	7.5	2.5	25.8	35.0	22.3	3.6	34.0	35.8
Hungary	757	11.9	9.5	13.0	1.7	3.1	4.5	9.7	0.9	45.6	39.2	30.3	15.3	37.0	42.3
Iceland	414	12.4	10.1	7.5	2.1	1.2	24.9	1.1	1.6	39.2	33.3	36.1	3.1	29.6	36.7
Iran, Islamic Rep.	831	2.5	4.2	11.5	4.0	0.0	18.2	8.1	4.5	47.2	22.1	43.6	3.6	21.7	22.6
Ireland	721	10.8	6.9	30.3	5.2	0.6	24.0	4.5	3.3	14.4	53.8	13.0	1.4	50.6	56.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1083	5.0	9.4	70.4	2.0	0.4	2.6	1.4	2.4	6.4	87.2	5.5	0.9	86.1	88.4
Korea	689	15.1	5.4	40.2	4.1	2.1	11.5	17.9	2.4	1.4	66.8	0.4	1.0	62.2	70.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	510	4.9	20.2	9.5	1.6	3.5	8.2	14.4	0.6	37.0	39.7	33.3	3.7	39.1	40.4
Netherlands	709	6.6	6.9	37.7	7.4	4.3	21.6	8.2	1.7	5.6	62.9	4.6	1.1	61.6	63.9
New Zealand	623	13.1	4.6	27.6	5.3	1.6	22.2	3.8	2.2	19.7	52.1	17.9	1.8	54.5	49.2
Norway	550	6.8	10.2	18.8	1.9	0.7	15.2	2.2	3.0	41.2	38.4	35.9	5.3	36.0	40.8
Portugal	647	9.2	8.5	4.8	2.3	5.0	8.5	5.8	2.1	53.7	29.8	45.8	8.0	27.4	32.2
Scotland	775	12.3	2.5	31.0	4.1	1.0	22.8	6.5	2.6	17.2	50.9	14.4	2.7	50.6	51.0
Singapore	1776	8.4	2.6	33.8	4.9	0.2	38.4	5.4	1.7	4.7	49.8	3.6	1.2	49.1	50.5
Slovenia	625	13.5	2.4	25.8	1.6	3.4	15.2	7.5	2.2	28.4	46.7	21.0	7.5	45.0	48.3
Thailand	692	0.8	1.5	7.7	0.6	0.0	33.5	24.5	0.1	31.3	10.7	29.4	1.9	12.1	9.2
United States	883	14.1	8.7	28.4	7.7	2.2	21.5	6.7	2.2	8.4	61.2	6.6	1.8	61.1	61.2
INTERNATIONAL AVG	.	9.0	6.6	25.2	3.7	1.8	18.5	7.5	2.3	25.5	46.3	21.5	4.0	44.7	47.8

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: Y03B  
 Besides escaping, what are two ways animals protect themselves? 2nd answer (Life Science)  
 Difficulty: 611

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	13	19	76	79	90	99	V1				
Australia	1168	7.2	9.5	24.0	5.3	0.8	20.0	4.5	0.8	27.9	46.8	17.6	10.3	44.4	49.4
Austria	621	8.3	2.8	14.1	3.0	1.6	31.2	9.4	3.2	26.3	29.8	15.8	10.5	28.5	30.4
Canada	1889	7.2	8.2	23.5	2.9	2.4	17.7	11.7	2.2	24.1	44.2	13.4	10.7	43.1	45.8
Cyprus	794	1.2	1.2	5.5	0.4	2.7	5.5	21.8	0.7	60.9	11.0	47.9	13.0	9.5	12.8
Czech Republic	814	5.2	5.3	15.2	2.5	0.8	17.1	10.9	0.7	42.4	28.9	28.6	13.8	28.1	29.8
England	750	7.2	5.8	20.5	3.2	0.9	16.8	11.8	3.1	30.6	37.7	19.7	10.9	36.9	38.5
Greece	743	2.7	3.5	7.5	4.5	2.6	7.1	15.1	1.2	55.9	20.8	40.1	15.8	23.1	18.6
Hong Kong	1089	3.3	3.1	11.7	7.6	0.4	21.1	7.7	3.6	41.6	26.0	25.8	15.8	23.2	28.3
Hungary	757	5.5	9.3	16.5	2.0	0.6	8.8	4.9	0.2	52.1	33.9	38.4	13.7	31.0	38.2
Iceland	413	4.5	6.8	3.9	1.8	0.4	14.7	15.1	1.6	51.5	17.2	39.1	12.4	15.4	19.0
Iran, Islamic Rep.	830	2.4	2.5	6.9	5.1	0.7	8.2	7.1	2.2	65.0	17.5	46.8	18.2	16.1	19.2
Ireland	721	7.2	8.4	16.8	3.1	0.6	24.4	10.6	1.4	27.5	36.1	14.4	13.1	31.8	39.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1083	3.8	6.2	10.7	2.4	0.4	3.4	0.5	1.4	71.3	23.4	6.2	65.1	22.4	24.5
Korea	689	7.1	5.6	20.4	4.1	3.2	12.3	29.8	6.3	11.2	40.5	1.1	10.0	41.7	39.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	510	1.5	7.8	9.3	2.0	3.9	5.0	15.0	0.6	55.0	24.5	35.6	19.4	24.7	24.3
Netherlands	709	4.8	9.6	27.1	3.9	3.0	24.4	15.5	0.6	11.2	48.4	5.6	5.5	49.4	48.2
New Zealand	623	6.2	5.4	17.9	3.5	0.5	21.8	8.5	2.8	33.2	33.6	19.7	13.5	34.3	32.5
Norway	550	3.1	11.1	10.2	1.5	0.8	15.2	5.0	3.6	49.5	26.8	41.2	8.3	26.9	27.5
Portugal	647	0.6	2.6	1.7	0.1	1.2	2.1	3.4	0.3	88.0	6.2	53.5	34.5	7.0	5.4
Scotland	775	7.6	3.8	17.9	2.8	1.3	21.1	15.2	1.1	29.1	33.3	17.2	12.0	30.6	36.4
Singapore	1776	7.0	4.4	19.4	4.2	0.5	38.5	6.6	2.3	17.1	35.5	4.5	12.6	31.3	39.5
Slovenia	625	8.2	2.1	11.0	0.6	4.8	12.0	12.2	0.5	48.5	26.8	28.2	20.3	25.9	27.7
Thailand	692	0.7	2.3	4.3	0.2	0.0	27.6	24.8	0.0	40.2	7.4	31.2	9.0	8.6	6.2
United States	883	9.2	9.3	21.9	4.7	3.4	20.9	9.7	1.9	19.1	48.4	8.4	10.7	47.2	49.4
INTERNATIONAL AVG	.	5.1	5.7	14.1	3.0	1.6	16.5	11.5	1.8	40.8	29.4	25.0	15.8	28.4	30.4

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: Z01A

Shown diagram of river flowing through wide plain, write one reason this is a good place for farming (Earth Science)

Difficulty: 537

COUNTRY	N	NOT REACH ED										1. GIRL % Right	2. BOY % Right		
		10	11	12	19	70	76	79	90	99	V1				
Australia	1168	10.5	40.6	11.0	1.8	5.3	2.1	12.4	0.9	15.3	64.0	2.3	13.0	65.6	62.4
Austria	625	5.9	14.7	4.2	7.8	0.5	9.6	10.8	7.5	39.0	32.6	4.5	34.4	34.4	31.7
Canada	1889	8.1	21.9	12.4	10.0	2.2	3.7	18.9	5.5	17.3	52.4	3.5	13.8	52.5	52.0
Cyprus	832	1.9	19.7	7.5	7.7	1.9	0.8	15.0	1.2	44.2	36.8	10.3	33.9	34.4	39.7
Czech Republic	807	8.2	20.0	3.4	5.5	2.4	6.1	16.2	3.7	34.4	37.1	7.0	27.4	36.3	38.1
England	769	6.9	39.6	10.3	5.9	1.8	2.2	13.2	5.7	14.5	62.7	2.3	12.1	63.3	62.1
Greece	727	4.8	29.0	3.6	2.3	0.3	2.6	10.6	5.0	41.8	39.6	5.7	36.0	41.7	37.8
Hong Kong	1106	1.5	39.7	3.5	0.0	0.0	1.7	22.8	2.0	28.6	44.8	0.6	28.1	45.4	44.4
Hungary	763	3.1	33.1	5.8	7.6	1.9	1.0	14.6	2.3	30.7	49.6	10.7	20.0	47.5	52.6
Iceland	416	4.5	14.5	3.9	2.6	0.8	8.7	14.5	2.5	48.0	25.5	13.7	34.3	22.4	28.5
Iran, Islamic Rep.	843	3.5	21.5	1.9	0.7	0.5	0.9	6.3	4.8	59.9	27.5	13.2	46.7	28.6	26.3
Ireland	725	8.6	35.8	8.7	2.3	3.3	3.4	13.3	6.9	17.7	55.5	2.2	15.4	53.6	57.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1074	16.1	33.0	3.4	7.7	3.3	5.6	12.1	8.5	10.3	60.2	0.8	9.5	62.7	57.8
Korea	690	13.6	50.1	14.1	3.2	1.3	5.0	9.6	2.9	0.2	81.0	0.0	0.2	82.0	80.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	13.2	15.9	1.1	2.9	0.7	0.6	14.7	0.3	50.6	33.0	7.4	43.3	30.9	35.0
Netherlands	685	4.9	30.5	13.1	4.0	8.5	1.0	23.3	2.2	12.5	52.5	0.1	12.3	56.0	49.1
New Zealand	614	6.0	29.1	17.3	4.7	4.1	3.8	14.6	2.0	18.4	57.0	5.8	12.6	56.8	57.1
Norway	564	2.7	23.1	3.2	0.8	0.6	0.4	24.6	5.6	39.1	29.8	17.9	21.1	29.7	31.5
Portugal	655	3.9	14.3	3.8	3.0	0.5	3.2	8.2	4.2	58.8	25.0	20.8	38.0	24.0	25.9
Scotland	765	7.3	37.8	9.0	5.3	2.1	3.6	15.6	2.7	16.5	59.5	3.9	12.5	57.8	61.3
Singapore	1775	16.3	42.9	2.8	1.9	1.0	8.0	19.6	2.0	5.4	63.9	0.2	5.2	63.8	64.0
Slovenia	619	3.3	25.1	8.0	6.5	5.0	4.1	20.8	2.4	24.8	42.9	5.3	19.4	39.7	45.8
Thailand	638	9.0	36.9	1.7	1.2	0.3	1.1	14.8	0.4	34.6	48.7	2.0	32.6	50.9	46.4
United States	939	15.0	31.3	19.2	0.5	2.1	2.3	17.6	2.1	9.9	66.1	0.9	9.0	67.7	64.5
INTERNATIONAL AVG	.	7.5	29.2	7.2	4.0	2.1	3.4	15.2	3.5	28.0	47.8	5.9	22.1	47.8	48.0

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: Z01B

Shown diagram of river flowing through wide plain, write one reason this is a bad place for farming (Earth Science)

Difficulty: 743

COUNTRY	N	NOT REACHED												1.GIRL % Right	2.BOY % Right		
		10	11	19	70	71	72	73	76	79	90	99	V1			ED	OMIT
Australia	1168	16.3	0.2	1.8	1.8	5.4	2.2	10.0	1.2	40.7	1.4	19.1	18.3	3.7	15.4	19.9	16.7
Austria	625	12.8	1.2	3.0	1.5	0.3	0.8	2.3	2.5	21.6	7.7	46.6	16.9	6.5	40.1	14.4	19.5
Canada	1889	10.7	0.8	5.0	0.4	2.3	5.9	8.8	3.4	34.7	5.0	23.1	16.4	6.2	16.9	18.1	14.8
Cyprus	832	1.8	0.8	1.1	0.7	6.0	3.5	1.3	1.4	31.2	1.5	50.8	3.7	14.7	36.1	3.5	3.9
Czech Republic	807	13.6	0.3	4.6	0.4	2.5	2.0	4.7	4.2	22.6	3.0	42.2	18.4	10.8	31.4	16.4	20.5
England	769	20.2	0.5	11.0	1.2	2.5	4.3	6.3	0.9	28.0	4.9	20.2	31.7	4.2	16.1	32.2	31.2
Greece	727	5.6	1.0	1.5	0.6	0.7	3.8	7.1	1.6	23.2	6.2	48.8	8.1	8.8	40.0	7.8	8.4
Hong Kong	1106	2.7	0.9	0.4	0.2	0.2	2.1	14.1	0.2	40.9	2.5	35.7	4.0	0.9	34.8	3.7	4.3
Hungary	763	9.5	2.5	10.9	2.3	0.4	3.8	1.5	4.3	24.0	1.8	39.1	22.8	15.4	23.7	23.0	23.7
Iceland	416	1.1	0.4	4.2	0.0	0.0	1.2	5.2	1.4	23.1	5.5	57.9	5.7	20.0	37.9	5.0	6.5
Iran, Islamic Rep.	843	0.3	0.0	6.8	2.0	0.4	0.1	3.0	2.2	13.2	3.9	68.0	7.1	18.4	49.6	7.2	7.0
Ireland	725	18.7	0.0	7.4	2.0	5.7	3.5	6.0	5.3	24.1	7.9	19.4	26.1	3.4	16.0	28.0	24.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1074	3.2	0.3	4.4	1.8	0.1	3.0	20.4	4.4	36.5	10.7	15.1	7.9	1.8	13.3	7.1	8.6
Korea	690	9.7	11.5	3.7	0.4	1.3	5.9	19.0	6.4	38.1	3.7	0.2	24.9	0.2	0.0	29.5	20.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	11.1	0.6	2.3	0.2	1.2	1.6	1.4	0.3	22.6	0.0	58.8	13.9	13.4	45.3	13.3	14.6
Netherlands	685	25.8	1.2	0.6	5.0	12.1	5.3	7.4	0.4	23.9	2.7	15.6	27.6	2.0	13.6	28.8	27.0
New Zealand	614	12.7	0.7	9.3	2.2	5.6	3.3	6.2	6.2	27.2	3.6	23.0	22.7	8.5	14.6	22.4	22.8
Norway	564	5.0	0.4	2.2	1.1	0.3	2.0	3.9	0.0	30.2	5.7	49.2	7.6	21.5	27.7	7.5	7.5
Portugal	655	1.0	0.6	4.3	0.0	0.8	0.7	4.1	1.6	16.3	3.7	67.0	5.8	26.1	40.9	5.8	5.8
Scotland	765	14.0	0.6	2.6	1.2	6.2	6.2	6.3	3.2	36.3	2.4	21.2	17.1	6.8	14.4	16.2	18.3
Singapore	1775	7.1	0.5	2.8	2.3	7.7	0.4	18.1	4.5	47.0	2.5	7.0	10.5	0.6	6.3	9.6	11.2
Slovenia	619	14.3	1.1	6.1	2.3	1.2	1.6	4.9	2.3	29.3	2.8	34.0	21.5	8.1	25.9	21.1	21.9
Thailand	638	9.3	1.2	10.4	0.1	0.2	1.3	11.3	5.2	26.2	0.4	34.3	21.0	5.5	28.9	23.4	18.4
United States	939	17.0	0.9	2.7	1.3	3.3	3.2	11.6	1.6	44.5	2.6	11.2	20.6	1.1	10.1	16.4	24.3
INTERNATIONAL AVG	.	10.1	1.2	4.5	1.3	2.8	2.8	7.7	2.7	29.4	3.8	33.7	15.8	8.7	25.0	15.9	15.9

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: Z02  
 Identify skin and skeletal features of various animals (Life Science)  
 Difficulty: 514

COUNTRY	N	10	11	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right
												REACH ED			
Australia	1168	68.6	0.0	1.1	9.3	6.2	6.0	0.9	1.4	6.7	68.6	4.6	2.0	71.0	66.1
Austria	625	62.0	0.0	1.1	9.3	9.2	6.7	0.5	1.5	9.8	62.0	7.2	2.6	63.5	60.4
Canada	1889	55.0	0.1	1.8	8.5	14.3	8.7	0.9	1.4	9.3	55.1	7.2	2.2	55.0	56.3
Cyprus	832	39.2	0.0	3.2	12.2	12.2	12.8	1.9	0.0	18.5	39.2	15.7	2.8	37.8	40.6
Czech Republic	807	52.1	0.4	4.8	4.8	10.3	9.5	2.2	1.2	14.7	52.5	12.3	2.4	52.6	52.5
England	769	60.4	0.0	2.1	11.1	7.1	7.4	0.3	2.1	9.5	60.4	5.4	4.1	60.6	60.3
Greece	727	47.9	0.2	3.5	7.6	9.0	11.0	1.5	0.9	18.4	48.1	9.6	8.8	51.1	45.4
Hong Kong	1104	90.9	0.3	0.3	3.9	2.1	1.1	0.0	0.0	1.3	91.2	1.0	0.2	90.4	91.8
Hungary	763	56.4	0.0	2.2	8.5	5.7	7.3	0.4	0.3	19.2	56.4	16.8	2.4	56.6	57.6
Iceland	416	22.0	0.1	3.0	24.2	9.8	12.8	0.2	0.0	28.0	22.1	22.0	6.0	17.7	26.5
Iran, Islamic Rep.	843	19.1	0.0	5.2	2.7	24.2	18.4	8.9	1.0	20.4	19.1	18.4	2.0	17.1	21.4
Ireland	725	49.5	0.0	4.6	16.1	10.6	10.0	0.7	2.8	5.7	49.5	4.2	1.5	50.7	48.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1074	75.1	0.6	0.8	9.3	7.9	3.0	0.1	0.4	2.8	75.7	2.2	0.6	77.8	73.8
Korea	690	79.4	0.3	1.4	5.7	5.2	6.7	0.6	0.4	0.2	79.7	0.2	0.0	77.5	81.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	34.7	0.0	2.3	6.6	14.8	11.8	9.0	1.0	19.9	34.7	14.2	5.7	38.8	30.8
Netherlands	685	44.7	0.0	9.0	8.3	19.1	14.7	0.7	0.0	3.3	44.7	2.3	1.0	47.4	42.6
New Zealand	614	51.6	0.0	2.3	11.3	7.0	7.3	1.6	2.9	16.1	51.6	9.8	6.3	53.1	50.0
Norway	564	34.7	0.0	1.1	17.8	6.0	9.7	0.9	1.1	28.7	34.7	23.8	4.9	38.0	30.8
Portugal	655	35.4	0.1	3.3	3.5	14.8	9.8	1.8	0.2	31.0	35.6	27.4	3.6	37.1	34.1
Scotland	765	57.7	0.0	1.9	12.5	5.6	7.7	1.7	1.6	11.3	57.7	7.2	4.0	57.8	57.3
Singapore	1775	67.9	0.0	2.0	11.8	8.8	6.9	1.1	0.3	1.2	67.9	0.7	0.5	69.6	66.4
Slovenia	619	50.8	1.9	3.1	13.2	7.6	9.6	1.9	0.5	11.4	52.6	8.9	2.6	52.4	52.9
Thailand	638	17.6	0.0	4.7	5.0	21.4	9.3	33.6	0.0	8.4	17.6	5.8	2.6	17.5	17.8
United States	939	65.4	0.0	2.3	14.9	6.6	5.5	1.7	0.4	3.1	65.4	1.7	1.5	63.9	66.8
INTERNATIONAL AVG	.	51.6	0.2	2.8	9.9	10.2	8.9	3.0	0.9	12.5	51.8	9.5	2.9	52.3	51.4

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: Z03  
 Shown diagram of blocks being compared on balances, which weighs the most? Why? (Physical Science)  
 Difficulty: 640

COUNTRY	N	NOT REACHED														1.GIRL % Right	2.BOY % Right			
		20	10	11	12	19	70	71	72	73	79	90	99	V1	V2					
Australia	1168	28.4	23.8	5.8	0.0	0.5	16.7	4.8	6.9	0.2	2.9	0.8	9.2	58.5	28.4	5.4	3.9	27.4	29.4	
Austria	625	17.8	17.3	19.1	0.5	2.7	13.0	4.1	9.5	0.0	0.9	1.8	13.3	57.4	17.8	8.1	5.2	17.0	18.8	
Canada	1889	21.2	31.9	6.8	0.0	0.7	15.5	3.6	5.9	0.1	1.9	0.6	11.9	60.6	21.2	7.9	4.0	17.7	25.2	
Cyprus	832	10.4	18.5	7.2	0.0	0.4	13.5	4.6	11.2	0.2	4.3	0.4	29.3	36.5	10.4	16.6	12.7	6.0	15.0	
Czech Republic	806	17.8	13.8	5.5	0.1	2.6	6.8	1.9	10.5	1.1	14.8	1.6	23.6	39.8	17.8	13.4	10.2	14.4	21.4	
England	769	26.0	26.1	5.4	0.1	0.3	16.2	3.1	7.5	0.0	1.8	2.2	11.3	57.9	26.0	7.1	4.2	23.3	28.6	
Greece	727	20.9	28.7	3.3	0.4	0.5	7.5	3.5	4.0	0.4	1.6	1.0	28.3	53.7	20.9	10.0	18.3	18.8	22.9	
Hong Kong	1101	41.3	14.6	16.4	0.1	0.0	9.5	4.3	7.4	0.1	2.4	0.1	3.9	72.4	41.3	1.0	2.8	40.2	42.4	
Hungary	763	16.7	15.4	4.9	0.0	0.3	8.9	3.1	6.6	1.8	3.6	0.5	38.2	37.3	16.7	18.7	19.5	15.6	18.6	
Iceland	416	14.2	7.9	15.4	0.0	6.0	15.3	3.4	2.3	0.1	1.5	0.4	33.3	43.6	14.2	23.6	9.7	7.3	21.0	
Iran, Islamic Rep.	843	3.3	2.6	7.8	0.1	0.1	7.5	8.1	6.1	0.3	7.6	13.6	42.9	14.0	3.3	19.0	23.9	4.1	2.4	
Ireland	725	23.8	24.7	8.5	0.3	0.0	16.5	4.8	5.3	0.7	3.3	1.2	10.7	57.4	23.8	5.0	5.7	18.0	28.6	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1074	51.5	15.6	1.0	0.0	6.0	0.6	0.4	2.4	0.1	16.1	0.5	5.7	74.1	51.5	2.7	3.0	52.5	50.6	
Korea	690	65.6	16.3	1.6	0.3	0.6	8.2	2.7	1.4	0.0	1.0	2.0	0.2	84.5	65.6	0.2	0.0	64.1	67.1	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	516	14.8	11.1	21.1	0.0	0.6	8.6	1.2	9.4	1.4	8.7	0.8	22.3	47.6	14.8	15.0	7.3	13.8	15.7	
Netherlands	685	27.0	33.1	2.8	0.1	0.0	16.5	2.9	10.7	0.0	1.2	0.6	5.0	63.1	27.0	2.8	2.2	27.1	27.0	
New Zealand	614	17.4	28.0	7.8	0.0	0.0	15.4	4.2	7.8	0.3	2.0	0.8	16.4	53.2	17.4	12.1	4.3	16.5	18.5	
Norway	564	14.0	14.4	9.9	0.0	0.0	11.1	2.5	8.0	0.0	1.3	2.6	36.2	38.3	14.0	26.0	10.2	13.4	15.6	
Portugal	655	12.8	11.8	9.2	0.4	1.0	12.4	3.6	6.3	0.5	2.6	0.9	38.5	35.1	12.8	29.2	9.3	12.2	13.3	
Scotland	765	21.5	27.0	9.2	0.2	0.2	16.1	4.6	6.2	0.0	2.2	0.5	12.4	58.1	21.5	7.9	4.5	14.8	27.2	
Singapore	1775	45.2	18.4	10.9	0.4	0.4	12.5	5.1	2.9	0.0	1.1	0.7	2.4	75.3	45.2	0.7	1.7	44.1	46.2	
Slovenia	618	22.6	15.0	8.0	0.3	0.1	14.9	2.9	7.5	1.3	1.6	0.8	25.0	46.0	22.6	9.6	15.4	17.5	27.3	
Thailand	638	10.4	17.7	15.7	0.3	0.1	7.0	3.5	24.0	0.5	7.4	0.1	13.4	44.2	10.4	6.1	7.2	11.1	9.6	
United States	939	27.7	27.8	4.1	0.3	3.4	17.2	4.0	7.6	0.2	2.4	0.6	4.7	63.3	27.7	1.9	2.8	23.6	31.4	
INTERNATIONAL AVG	.	23.9	19.2	8.6	0.2	1.1	12.0	3.6	7.4	0.4	3.9	1.5	18.3	53.0	23.9	10.4	7.8	21.7	26.0	

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