

Item: I01 KEY: D
 COMPOSITE FUNCTION (Numbers, Equations and Functions)
 Difficulty: 517

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	29.4	7.7	1.8	59.9	0.5	0.6	59.9	0.2	0.0	0.5	58.1	61.4
Austria	782	50.7	14.5	2.2	27.9	1.3	3.4	27.9	0.2	0.1	3.1	19.2	42.9
Canada	2781	18.5	9.2	1.4	69.8	0.9	0.3	69.8	0.0	0.0	0.3	65.1	73.8
Cyprus	390	12.7	7.0	2.4	74.5	1.3	2.1	74.5	0.0	0.0	2.1	73.1	75.9
Czech Republic	1101	63.4	10.8	1.3	20.5	0.8	3.2	20.5	0.4	0.0	2.8	13.4	30.9
Denmark	1388	12.9	15.2	2.1	63.8	2.4	3.6	63.8	0.0	0.0	3.6	65.6	63.2
France	1071	3.9	6.3	1.4	87.3	0.4	0.6	87.3	0.0	0.0	0.6	90.7	85.4
Germany	2296	21.8	15.3	2.8	54.1	1.9	4.1	54.1	0.4	0.1	3.7	51.8	57.8
Greece	456	3.4	8.0	1.7	85.8	0.5	0.5	85.8	0.0	0.0	0.5	89.7	84.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	16.7	3.0	2.3	75.9	0.2	1.9	75.9	0.0	0.4	1.5	72.0	78.1
Italy	397	33.2	11.9	2.4	48.4	0.8	3.3	48.4	0.0	0.0	3.3	44.3	51.0
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	17.3	4.2	0.4	75.1	1.0	2.0	75.1	0.0	0.0	2.0	71.2	79.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1638	16.6	5.9	1.2	71.9	0.3	4.2	71.9	0.0	0.0	4.1	65.9	77.4
Slovenia	1536	18.6	12.0	1.9	64.1	0.4	2.9	64.1	0.2	0.0	2.7	62.8	65.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	1001	21.8	12.6	2.8	59.6	2.6	0.7	59.6	0.0	0.1	0.6	60.5	59.2
Switzerland	1404	24.5	9.8	1.2	58.7	0.6	5.1	58.7	0.0	0.1	5.0	55.0	62.1
United States	2785	25.0	15.3	2.9	54.7	1.6	0.5	54.7	0.0	0.0	0.5	55.7	53.8
INTERNATIONAL AVG	.	23.0	9.9	1.9	61.9	1.0	2.3	61.9	0.1	0.1	2.2	59.7	64.8

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

Item: I02 KEY: A
 GRAPH OF FUNCTION OVER DISTINCT RANGES (Numbers, Equations and Functions)
 Difficulty: 510

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	67.7	7.7	7.7	4.1	11.2	1.5	67.7	0.7	0.0	0.8	69.7	66.1
Austria	782	37.7	10.9	9.4	10.4	15.7	15.8	37.7	0.1	0.1	15.6	31.0	47.7
Canada	2781	55.0	10.1	12.4	5.9	15.1	1.5	55.0	0.2	0.0	1.3	52.7	57.0
Cyprus	391	56.7	12.6	8.6	7.7	13.7	0.7	56.7	0.0	0.0	0.7	50.6	60.2
Czech Republic	1101	50.7	7.6	9.8	7.9	13.2	10.8	50.7	0.6	0.1	10.2	40.2	66.2
Denmark	1388	82.7	1.1	3.8	3.1	7.2	2.0	82.7	0.1	0.0	2.0	81.6	83.0
France	1071	84.3	1.8	2.9	2.3	6.6	2.2	84.3	0.0	0.0	2.2	83.6	84.5
Germany	2296	53.4	6.6	4.4	7.5	8.7	19.3	53.4	1.6	0.4	17.3	48.8	60.2
Greece	456	68.5	5.4	5.4	3.7	12.1	5.0	68.5	0.0	0.0	5.0	66.2	69.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	65.4	7.5	4.3	5.1	14.8	2.9	65.4	0.0	0.4	2.5	63.7	67.2
Italy	397	63.3	8.7	3.1	5.4	10.6	8.8	63.3	0.0	0.0	8.8	68.4	60.0
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	69.4	4.9	7.4	3.4	6.6	8.3	69.4	0.0	0.0	8.3	62.4	76.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1638	79.9	2.9	7.1	1.3	6.2	2.7	79.9	0.0	0.0	2.6	74.2	85.2
Slovenia	1536	57.1	9.2	4.8	7.9	11.8	9.2	57.1	0.2	0.0	9.0	56.5	57.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	999	67.0	5.4	6.0	5.9	14.2	1.5	67.0	0.0	0.1	1.4	64.0	68.4
Switzerland	1404	65.9	4.4	5.7	5.3	9.6	9.2	65.9	0.0	0.1	9.0	60.4	70.9
United States	2785	43.7	17.1	15.2	5.7	16.1	2.2	43.7	0.0	0.0	2.1	41.2	46.0
INTERNATIONAL AVG	.	62.8	7.3	6.9	5.5	11.4	6.1	62.8	0.2	0.1	5.8	59.7	66.3

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

Item: I03 KEY: E
 COMPARISON OF PREDICTIONS OF TWO FUNCTIONS (Numbers, Equations and Functions)
 Difficulty: 508

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	13.8	10.0	6.4	3.9	65.4	0.5	65.4	0.0	0.0	0.5	59.5	70.2
Austria	782	5.0	12.5	14.7	7.2	49.3	11.3	49.3	0.7	0.1	10.5	44.1	57.3
Canada	2781	9.8	8.3	9.3	4.4	67.1	1.2	67.1	0.1	0.0	1.1	64.7	69.4
Cyprus	390	16.8	9.5	7.7	4.6	60.3	1.1	60.3	0.0	0.0	1.1	59.0	61.5
Czech Republic	1101	8.9	9.1	4.8	4.1	64.8	8.3	64.8	3.3	0.1	4.9	57.1	76.2
Denmark	1388	10.9	3.6	3.8	1.3	70.7	9.7	70.7	5.6	0.0	4.2	71.8	70.3
France	1071	27.7	7.1	4.5	3.8	49.7	7.1	49.7	3.4	0.0	3.7	51.5	48.9
Germany	2296	7.1	8.0	5.9	3.3	62.8	12.8	62.8	5.8	0.4	6.6	59.4	68.4
Greece	456	12.6	13.8	7.0	8.4	51.0	7.3	51.0	1.1	0.8	5.3	45.3	53.2
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	16.5	3.9	5.1	4.0	66.8	3.7	66.8	0.1	0.4	3.1	64.2	69.1
Italy	398	13.7	8.0	8.2	6.0	54.1	10.0	54.1	0.8	0.0	9.3	45.5	59.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	12.0	3.3	2.5	0.5	76.5	5.1	76.5	0.0	0.0	5.1	72.7	80.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1638	10.9	5.6	4.7	3.1	69.5	6.2	69.5	0.0	0.1	6.1	66.2	72.4
Slovenia	1536	13.8	8.6	8.6	4.1	52.6	12.2	52.6	1.4	0.0	10.9	48.8	56.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	999	5.7	9.9	5.1	2.7	70.2	6.4	70.2	5.8	0.1	0.5	69.1	70.7
Switzerland	1404	7.2	5.5	4.6	2.5	70.4	9.7	70.4	4.2	0.1	5.4	66.4	73.6
United States	2785	10.1	9.9	12.1	8.8	57.4	1.8	57.4	0.2	0.1	1.5	52.2	62.3
INTERNATIONAL AVG	.	11.9	8.0	6.8	4.3	62.3	6.7	62.3	1.9	0.1	4.7	58.7	65.9

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

Item: I04 KEY: B
 LIMIT OF FUNCTION BY REDUCING POLYNOMIALS (Calculus)
 Difficulty: 515

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	14.5	51.0	10.6	4.3	18.6	1.0	51.0	0.0	0.0	1.0	52.3	49.9
Austria	782	15.1	31.6	15.5	4.7	26.8	6.3	31.6	0.0	0.1	6.2	29.5	35.9
Canada	2781	9.9	59.0	9.8	2.1	18.1	1.1	59.0	0.0	0.0	1.1	54.3	63.2
Cyprus	391	7.0	78.4	3.7	0.8	9.7	0.5	78.4	0.0	0.0	0.5	74.1	80.8
Czech Republic	1101	9.6	49.3	10.1	6.9	12.6	11.4	49.3	2.4	0.1	9.0	42.4	59.5
Denmark	1388	5.4	59.2	11.9	1.4	17.6	4.4	59.2	0.1	0.1	4.2	55.8	61.2
France	1071	0.7	85.7	5.0	0.4	7.3	1.0	85.7	0.2	0.1	0.7	86.8	84.7
Germany	2296	8.0	49.4	11.9	3.3	20.8	6.6	49.4	0.4	0.4	5.8	47.4	52.5
Greece	456	6.1	79.2	2.5	0.6	9.9	1.7	79.2	0.0	0.9	0.8	76.5	80.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	4.6	69.7	14.1	0.6	10.0	1.0	69.7	0.0	0.4	0.6	68.9	70.6
Italy	398	3.9	77.5	7.0	0.8	8.9	1.9	77.5	0.0	0.0	1.9	79.5	76.2
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	7.0	53.4	5.3	2.2	10.2	21.9	53.4	0.2	0.0	21.6	44.7	61.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1638	4.2	68.4	5.5	2.4	11.4	8.0	68.4	0.0	0.2	7.8	62.1	74.3
Slovenia	1536	7.6	65.8	5.0	2.4	11.3	7.9	65.8	0.3	0.0	7.7	66.8	64.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	998	17.6	44.4	9.7	4.0	21.9	2.5	44.4	0.1	0.2	2.2	33.1	49.5
Switzerland	1404	6.5	67.1	9.5	1.1	13.1	2.7	67.1	0.0	0.1	2.5	61.6	72.0
United States	2785	9.9	47.5	10.3	4.5	21.9	5.9	47.5	0.0	0.1	5.8	44.4	50.5
INTERNATIONAL AVG	.	8.1	61.0	8.7	2.5	14.7	5.0	61.0	0.2	0.2	4.7	57.6	64.0

DIFF = Item Difficulty
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Item: I05 KEY: A
 NEW MEAN AND STANDARD DEVIATION (Probability & Statistics)
 Difficulty: 646

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	47.0	16.5	15.6	8.8	11.0	1.1	47.0	0.0	0.0	1.1	43.8	49.6
Austria	782	33.6	19.2	25.1	8.9	7.8	5.3	33.6	0.0	0.2	5.1	27.9	42.4
Canada	2781	40.9	14.9	25.7	8.3	7.9	2.4	40.9	0.0	0.0	2.4	35.3	45.9
Cyprus	391	26.5	22.4	20.1	12.5	10.0	8.5	26.5	0.0	0.0	8.5	21.0	29.9
Czech Republic	1100	45.5	18.2	17.8	7.2	4.4	6.8	45.5	0.6	0.1	6.2	38.0	56.4
Denmark	1388	52.5	8.8	14.0	6.8	5.0	12.8	52.5	0.1	0.1	12.6	48.4	54.5
France	1071	44.3	12.9	10.7	10.0	7.2	14.9	44.3	0.2	0.1	14.6	38.9	48.3
Germany	2296	28.5	19.5	24.5	8.4	5.4	13.7	28.5	0.5	0.4	12.8	23.2	35.8
Greece	456	23.1	24.1	22.4	8.9	12.0	9.5	23.1	0.0	0.9	8.5	19.7	24.5
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	35.4	18.8	11.5	9.0	8.7	16.6	35.4	0.0	0.4	16.2	28.0	41.1
Italy	397	25.4	21.6	16.3	6.8	9.7	20.2	25.4	0.6	0.0	19.7	18.6	29.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	25.5	9.4	13.5	5.2	2.9	43.5	25.5	0.0	0.0	43.5	25.4	25.5
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1625	45.7	10.5	16.6	4.8	2.2	20.3	45.7	0.0	0.4	19.9	43.7	47.5
Slovenia	1536	29.9	16.6	26.7	3.6	4.6	18.5	29.9	0.1	0.0	18.4	26.5	33.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	997	53.9	20.7	11.3	7.2	5.0	1.8	53.9	0.0	0.2	1.6	43.4	58.6
Switzerland	1404	43.9	14.3	17.0	7.3	3.7	13.7	43.9	0.1	0.2	13.5	36.1	51.5
United States	2785	28.1	20.0	28.7	8.1	11.5	3.6	28.1	0.0	0.1	3.5	26.3	29.8
INTERNATIONAL AVG	.	37.0	17.0	18.7	7.8	7.0	12.5	37.0	0.1	0.2	12.2	32.0	41.4

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

Item: I06 KEY: D
 USING CHAIN RULE (Calculus)
 Difficulty: 562

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	3.8	7.2	19.7	63.1	5.8	0.4	63.1	0.0	0.0	0.4	63.3	62.9
Austria	782	9.4	12.1	22.9	44.7	7.3	3.6	44.7	0.0	0.2	3.4	39.5	52.5
Canada	2781	6.2	11.3	20.4	51.7	8.2	2.2	51.7	0.3	0.0	1.9	46.9	56.1
Cyprus	391	2.8	1.0	15.0	77.0	3.4	0.8	77.0	0.0	0.0	0.8	79.8	74.9
Czech Republic	1100	8.7	13.5	25.2	30.6	6.4	15.5	30.6	3.1	0.1	12.3	26.0	37.3
Denmark	1388	14.1	11.4	18.8	32.4	10.3	12.9	32.4	0.2	0.1	12.7	28.9	34.4
France	1071	7.6	1.5	21.7	56.0	7.4	5.8	56.0	0.0	0.3	5.4	52.4	58.7
Germany	2296	8.8	13.3	26.5	36.2	6.2	9.0	36.2	0.5	0.4	8.1	34.3	39.3
Greece	456	4.6	4.7	14.8	64.1	8.1	3.7	64.1	0.0	1.1	2.6	70.3	61.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	3.5	0.9	18.5	67.5	7.5	2.2	67.5	0.3	0.5	1.4	71.5	65.8
Italy	398	6.8	5.6	16.0	59.2	9.1	3.3	59.2	0.2	0.3	2.8	64.6	55.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	2.2	2.7	21.7	65.0	2.1	6.4	65.0	0.0	0.0	6.4	62.1	67.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1626	4.0	2.9	19.3	65.7	4.8	3.4	65.7	0.2	0.4	2.9	59.7	71.2
Slovenia	1536	5.2	7.1	23.2	45.1	4.9	14.6	45.1	0.0	0.0	14.5	46.4	43.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	997	7.3	22.9	27.6	34.2	4.9	3.1	34.2	0.0	0.2	2.9	33.6	34.5
Switzerland	1404	5.9	7.4	23.3	50.9	7.0	5.4	50.9	0.0	0.2	5.2	46.3	54.7
United States	2785	13.1	12.3	23.0	35.4	10.5	5.5	35.4	0.0	0.1	5.4	32.6	38.1
INTERNATIONAL AVG	.	6.7	8.1	21.0	51.7	6.7	5.7	51.7	0.3	0.2	5.2	50.5	53.5

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

Item: I07 KEY: A
 SUM OF SLOPES OF EQUILATERAL TRIANGLE (Geometry)
 Difficulty: 527

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	57.7	1.2	15.1	16.2	7.9	1.9	57.7	0.0	0.0	1.9	52.6	61.7
Austria	782	51.2	1.8	22.3	15.4	5.2	4.2	51.2	0.0	0.3	3.9	41.6	67.5
Canada	2781	67.5	2.2	12.1	11.3	5.9	1.0	67.5	0.0	0.0	0.9	61.3	73.1
Cyprus	391	71.0	2.6	7.3	11.8	4.1	3.2	71.0	0.3	0.0	2.9	66.5	73.8
Czech Republic	1100	41.5	2.6	22.0	13.2	8.7	11.9	41.5	2.9	0.1	8.9	33.9	52.7
Denmark	1388	77.0	7.0	7.0	3.4	1.8	3.8	77.0	0.4	0.1	3.2	75.2	77.6
France	1071	76.4	1.7	9.0	6.5	2.6	3.9	76.4	0.0	0.3	3.5	71.4	79.4
Germany	2296	67.6	2.3	17.0	5.4	2.2	5.4	67.6	0.3	0.4	4.6	61.3	76.2
Greece	456	43.0	4.9	14.0	27.2	3.6	7.3	43.0	0.0	1.1	6.2	34.1	47.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	76.9	0.4	3.8	13.9	2.8	2.2	76.9	0.0	0.5	1.7	71.5	80.9
Italy	398	48.2	2.0	13.1	18.5	2.4	15.8	48.2	0.0	0.3	15.5	43.6	51.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	733	43.6	1.1	17.1	10.3	3.2	24.6	43.6	0.0	0.0	24.6	35.1	52.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1636	53.0	0.8	10.8	20.9	3.7	10.9	53.0	0.0	0.4	10.4	46.6	58.9
Slovenia	1536	55.5	1.5	15.2	12.6	4.0	11.2	55.5	0.0	0.0	11.1	52.6	57.5
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	1000	71.6	3.7	10.8	9.3	3.6	0.9	71.6	0.1	0.2	0.6	71.0	71.9
Switzerland	1404	75.7	1.2	6.4	10.8	1.9	4.0	75.7	0.1	0.2	3.7	68.0	83.2
United States	2785	46.4	2.2	21.5	18.7	8.7	2.4	46.4	0.0	0.1	2.3	43.1	49.6
INTERNATIONAL AVG	.	60.2	2.3	13.2	13.3	4.3	6.7	60.2	0.2	0.3	6.2	54.7	65.5

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

Item: I08 KEY: D
 LENGTH OF SEGMENT OF ISOSCELES RIGHT TRIANGLE (Geometry)
 Difficulty: 403

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	9.6	9.2	16.6	63.0	1.5	63.0	0.4	0.0	1.1	62.5	63.3
Austria	782	7.1	5.5	15.0	69.9	2.6	69.9	0.3	0.3	1.9	65.8	76.3
Canada	2781	7.4	8.4	11.8	71.8	0.6	71.8	0.2	0.1	0.3	71.7	71.9
Cyprus	391	7.3	5.1	3.9	82.4	1.4	82.4	0.0	0.0	1.4	88.5	79.1
Czech Republic	1101	3.7	5.3	6.6	80.1	4.3	80.1	2.8	0.2	1.4	76.2	85.9
Denmark	1388	3.6	4.4	8.9	76.1	6.9	76.1	3.8	0.1	3.0	78.4	74.4
France	1071	1.5	2.7	7.7	82.7	5.3	82.7	3.3	0.6	1.4	81.0	84.3
Germany	2296	4.5	3.2	15.8	70.8	5.6	70.8	2.9	0.6	2.1	71.2	70.2
Greece	456	6.1	6.5	4.5	79.3	3.6	79.3	0.5	1.1	1.9	79.3	79.4
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	1.3	2.7	3.4	91.6	1.0	91.6	0.0	0.7	0.3	95.6	88.7
Italy	398	7.2	6.8	5.7	77.9	2.4	77.9	0.0	0.3	2.1	80.7	76.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	733	1.6	0.6	1.2	96.2	0.5	96.2	0.0	0.0	0.5	94.8	97.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1637	1.1	2.0	1.8	92.8	2.2	92.8	0.1	0.8	1.3	91.4	94.1
Slovenia	1536	6.3	8.6	6.4	72.3	6.4	72.3	0.6	0.2	5.6	73.1	71.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	999	5.2	5.5	13.6	73.9	1.8	73.9	0.4	0.2	1.1	79.8	71.3
Switzerland	1404	1.1	3.2	6.3	84.9	4.5	84.9	1.1	0.5	2.8	81.7	88.0
United States	2785	12.8	11.6	13.2	61.6	0.8	61.6	0.3	0.1	0.4	62.3	60.8
INTERNATIONAL AVG	.	5.1	5.4	8.4	78.1	3.0	78.1	1.0	0.3	1.7	78.5	78.4

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

Item: I09 KEY: C
 INTEGER COORDINATES OF FUNCTION (Geometry)
 Difficulty: 499

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	4.2	3.8	50.4	41.0	0.6	50.4	0.0	0.0	0.6	47.9	52.5
Austria	782	1.6	6.2	57.0	32.7	2.6	57.0	0.0	0.4	2.2	52.0	64.8
Canada	2781	1.7	4.1	47.8	46.0	0.5	47.8	0.0	0.1	0.4	40.9	54.0
Cyprus	391	2.8	5.1	63.1	28.2	0.8	63.1	0.0	0.0	0.8	60.9	65.3
Czech Republic	1101	0.5	5.6	66.9	25.6	1.3	66.9	0.2	0.2	0.9	59.3	78.2
Denmark	1388	0.8	3.5	72.0	22.2	1.5	72.0	0.3	0.1	1.1	72.7	71.1
France	1071	2.2	5.2	59.5	32.0	1.1	59.5	0.0	0.6	0.4	55.5	62.5
Germany	2296	1.7	4.6	65.8	25.6	2.4	65.8	0.2	0.6	1.6	65.8	66.5
Greece	456	2.1	5.8	67.4	21.9	2.8	67.4	0.0	1.1	1.6	69.8	66.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	1.8	3.9	68.0	25.2	1.2	68.0	0.0	0.7	0.4	69.9	67.0
Italy	398	2.9	4.2	63.4	25.6	3.9	63.4	0.5	0.3	3.1	63.2	63.5
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	0.9	1.7	83.4	12.8	1.2	83.4	0.0	0.0	1.2	79.9	86.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1636	0.1	1.7	84.2	11.4	2.5	84.2	0.0	1.0	1.5	82.1	86.2
Slovenia	1536	1.8	3.3	65.7	27.1	2.1	65.7	0.0	0.2	1.9	62.2	68.5
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	999	4.1	6.4	59.8	29.2	0.5	59.8	0.0	0.2	0.3	50.6	63.8
Switzerland	1404	1.7	2.3	74.3	19.9	1.8	74.3	0.1	0.5	1.2	72.8	75.4
United States	2785	1.7	4.4	32.1	61.1	0.7	32.1	0.0	0.1	0.6	29.2	34.7
INTERNATIONAL AVG	.	1.9	4.2	63.6	28.7	1.6	63.6	0.1	0.4	1.2	60.9	66.3

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

Item: I10 KEY: C
 FINDING NUMBER OF COUNTRY REPRESENTATIVES (Validation and Structure)
 Difficulty: 532

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	645	17.7	6.9	65.2	9.6	0.6	65.2	0.2	0.0	0.3	61.7	68.0
Austria	782	28.2	5.7	46.5	13.9	5.8	46.5	1.2	0.4	4.1	37.8	62.1
Canada	2781	17.6	5.6	66.4	10.0	0.3	66.4	0.1	0.1	0.2	60.0	72.2
Cyprus	391	32.5	7.6	47.8	10.6	1.4	47.8	0.0	0.0	1.4	43.9	50.8
Czech Republic	1101	19.5	5.2	57.0	10.2	8.1	57.0	7.5	0.2	0.4	48.6	69.4
Denmark	1388	22.8	2.3	61.2	3.9	9.8	61.2	8.9	0.2	0.7	54.1	65.1
France	1071	14.6	11.5	61.8	8.3	3.7	61.8	1.7	0.6	1.4	51.2	68.7
Germany	2296	18.2	4.7	54.8	7.5	14.8	54.8	12.4	0.6	1.8	50.2	62.1
Greece	456	29.8	10.8	33.8	21.2	4.4	33.8	0.7	1.1	2.5	21.3	39.2
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	953	6.4	6.4	81.0	4.6	1.6	81.0	0.2	0.8	0.5	78.0	83.2
Italy	396	28.6	4.8	47.0	14.5	5.1	47.0	2.3	0.3	2.5	47.3	46.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	734	29.0	3.1	58.8	6.2	3.0	58.8	0.6	0.0	2.5	51.0	66.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	1636	32.4	5.2	46.4	9.9	6.1	46.4	0.4	1.5	4.2	38.4	53.8
Slovenia	1536	31.2	7.3	47.9	8.9	4.8	47.9	2.7	0.5	1.6	44.9	50.1
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	1000	13.4	2.8	78.5	3.2	2.2	78.5	0.8	0.3	1.1	77.2	79.1
Switzerland	1404	14.8	4.5	68.0	5.3	7.4	68.0	5.7	0.6	1.2	60.7	74.1
United States	2785	11.9	7.8	70.0	9.5	0.9	70.0	0.1	0.2	0.6	65.6	74.1
INTERNATIONAL AVG	.	21.7	6.0	58.4	9.3	4.7	58.4	2.7	0.4	1.6	52.5	63.8

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

Item: J01 KEY: A
 EQUIVALENT FRACTIONS USING DIFFERENCE OF SQUARES (Numbers, Equations and Functions)
 Difficulty: 520

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	62.6	6.5	6.6	20.2	4.0	0.0	62.6	0.0	0.0	0.0	73.8	54.3
Austria	200	28.0	11.2	11.1	40.4	5.2	4.1	28.0	0.0	0.7	3.4	25.5	32.6
Canada	780	60.6	7.1	7.6	17.6	6.3	0.7	60.6	0.0	0.0	0.7	58.1	63.0
Cyprus	102	55.8	19.2	3.7	11.5	9.8	0.0	55.8	0.0	0.0	0.0	60.0	52.1
Czech Republic	288	58.7	11.6	6.6	14.8	5.5	2.8	58.7	2.4	0.0	0.4	51.6	68.0
Denmark	444	39.1	9.9	7.0	32.1	6.1	5.7	39.1	0.0	0.0	5.7	33.7	42.1
France	268	79.1	5.1	3.2	4.8	6.2	1.6	79.1	0.4	0.0	1.2	79.0	80.3
Germany	750	28.0	13.4	6.7	38.8	6.3	6.9	28.0	0.7	0.4	5.7	24.1	33.5
Greece	121	82.4	3.0	1.3	4.0	7.8	1.4	82.4	0.0	0.0	1.4	87.8	79.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	67.5	9.9	2.0	9.9	4.9	5.9	67.5	0.5	0.0	5.4	67.0	69.0
Italy	126	57.4	16.4	5.2	6.4	11.2	3.4	57.4	0.0	0.0	3.4	62.3	55.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	90.2	4.0	0.8	2.5	1.6	0.9	90.2	0.0	0.0	0.9	90.7	89.7
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	78.6	6.0	2.1	6.7	4.3	2.2	78.6	0.0	0.2	2.1	74.8	82.2
Slovenia	452	65.1	11.3	5.6	11.4	3.1	3.4	65.1	0.1	0.0	3.3	59.2	70.3
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	241	52.3	12.4	5.7	20.5	8.0	1.0	52.3	0.0	0.0	1.0	55.5	50.6
Switzerland	361	61.1	9.7	2.0	18.3	7.7	1.3	61.1	0.4	0.0	0.9	52.0	68.7
United States	786	45.4	18.3	8.3	20.9	6.1	1.0	45.4	0.0	0.0	1.0	45.2	45.5
INTERNATIONAL AVG	.	59.5	10.3	5.0	16.5	6.1	2.5	59.5	0.3	0.1	2.2	58.8	61.0

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

Item: J02 KEY: C
 CUBING A TRIGONOMETRIC FUNCTION WITH IMAGINARY NUMBERS (Numbers, Equations and Functions)
 Difficulty: 635

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	3.3	6.2	42.0	41.2	6.0	1.4	42.0	0.0	0.0	1.4	43.6	40.8
Austria	200	6.2	21.1	25.3	26.8	8.5	12.1	25.3	0.0	0.7	11.4	22.4	31.0
Canada	780	2.0	12.2	34.2	39.3	9.9	2.4	34.2	0.0	0.0	2.4	29.1	38.8
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	288	4.3	14.6	40.4	26.2	9.5	5.0	40.4	0.8	0.0	4.2	36.2	45.7
Denmark	444	3.2	17.7	21.4	31.7	6.7	19.3	21.4	0.2	0.0	19.1	23.1	20.4
France	268	0.7	8.2	59.1	19.0	11.7	1.5	59.1	0.1	0.0	1.3	58.5	58.8
Germany	750	3.7	17.7	21.0	23.3	6.2	28.0	21.0	2.9	0.4	24.6	24.1	17.6
Greece	.	.	.	.	.	.	.	.	.	.	.	.	.
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	0.0	7.4	62.6	19.7	5.9	4.4	62.6	0.0	0.0	4.4	67.0	61.0
Italy	126	6.4	11.4	20.0	33.7	4.9	23.5	20.0	1.5	0.0	21.9	10.4	24.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	250	0.2	7.3	46.6	24.7	9.2	12.0	46.6	0.0	0.0	12.0	44.9	48.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	0.1	3.6	56.1	21.6	6.5	12.1	56.1	0.0	0.2	11.9	48.8	63.0
Slovenia	452	1.7	7.5	41.3	20.0	12.5	17.1	41.3	1.4	0.0	15.6	40.4	43.5
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	242	1.4	16.0	46.0	24.3	10.3	2.0	46.0	0.0	0.0	2.0	54.6	41.6
Switzerland	.	.	.	.	.	.	.	.	.	.	.	.	.
United States	786	3.9	15.5	23.9	39.3	11.9	5.4	23.9	0.0	0.0	5.4	21.5	26.5
INTERNATIONAL AVG	.	2.7	11.9	38.5	27.9	8.6	10.4	38.5	0.5	0.1	9.8	37.5	40.1

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

Item: J03 KEY: E
 VALUE OF X NEEDED TO MAKE FUNCTION NEGATIVE (Numbers, Equations and Functions)
 Difficulty: 512

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	6.9	20.4	9.3	9.0	53.5	0.9	53.5	0.0	0.0	0.9	61.4	47.7
Austria	200	12.8	11.6	9.1	17.9	42.5	6.2	42.5	0.0	0.7	5.5	34.9	53.8
Canada	780	9.8	18.8	4.7	10.2	54.2	2.4	54.2	0.4	0.0	2.0	50.2	57.6
Cyprus	102	6.7	11.8	1.2	11.4	65.4	3.4	65.4	0.0	0.0	3.4	59.2	71.7
Czech Republic	288	7.2	18.5	5.6	7.4	56.2	5.1	56.2	3.2	0.0	1.9	49.9	64.4
Denmark	444	7.6	10.7	4.7	6.9	58.7	11.3	58.7	1.3	0.1	9.9	55.5	62.2
France	268	3.4	7.7	1.2	2.5	83.5	1.7	83.5	0.1	0.0	1.5	76.9	86.5
Germany	750	7.7	7.0	6.8	13.2	50.9	14.4	50.9	2.2	0.4	11.8	48.8	54.9
Greece	121	4.5	14.0	2.7	7.2	64.6	7.1	64.6	0.0	0.0	7.1	64.4	65.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	3.9	9.4	3.0	6.4	74.9	2.5	74.9	0.0	0.0	2.5	79.1	73.0
Italy	126	5.9	13.1	4.7	2.7	65.9	7.7	65.9	0.5	0.0	7.2	64.1	66.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	1.6	6.6	1.6	1.1	81.9	7.1	81.9	0.0	0.0	7.1	81.4	82.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	467	5.6	6.0	1.5	3.7	78.2	5.0	78.2	0.2	0.2	4.6	76.0	80.3
Slovenia	452	10.4	5.4	3.1	15.5	52.7	13.0	52.7	1.7	0.0	11.3	51.6	55.4
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	241	5.5	10.7	6.7	5.9	67.7	3.5	67.7	0.0	0.0	3.5	56.1	73.6
Switzerland	361	4.2	9.6	3.2	9.8	64.2	9.0	64.2	1.2	0.0	7.8	52.0	74.4
United States	786	11.4	17.5	11.8	14.1	42.4	2.9	42.4	0.1	0.0	2.8	41.4	43.4
INTERNATIONAL AVG	.	6.8	11.7	4.7	8.5	62.2	6.1	62.2	0.6	0.1	5.3	59.0	65.5

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

Item: J04 KEY: C
 TRANSLATION OF TRIGONOMETRIC FUNCTION (Numbers, Equations and Functions)
 Difficulty: 640

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	10.4	5.6	50.3	33.4	0.2	50.3	0.0	0.0	0.2	45.7	53.7
Austria	200	3.6	7.3	27.2	56.3	5.7	27.2	0.0	0.7	5.0	27.0	29.1
Canada	780	10.8	6.1	50.2	32.8	0.1	50.2	0.0	0.0	0.1	46.1	53.9
Cyprus	102	7.5	9.8	31.9	48.9	1.9	31.9	0.0	0.0	1.9	26.3	34.0
Czech Republic	288	6.1	2.5	27.8	61.7	1.9	27.8	0.0	0.0	1.9	22.0	35.4
Denmark	444	6.4	8.1	18.1	59.5	8.0	18.1	0.7	0.1	7.3	16.2	18.4
France	268	9.1	13.2	20.0	52.5	5.1	20.0	0.1	0.0	5.0	16.2	20.9
Germany	750	3.3	4.8	29.3	52.2	10.4	29.3	0.7	0.4	9.4	27.9	30.8
Greece	121	8.2	2.4	51.6	33.2	4.6	51.6	0.8	0.0	3.9	49.8	52.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	8.9	15.3	26.6	44.8	4.4	26.6	0.5	0.0	3.9	28.6	25.0
Italy	126	9.0	7.3	34.1	40.7	8.9	34.1	0.0	0.0	8.9	33.6	34.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	6.1	3.3	18.4	62.8	9.3	18.4	0.0	0.0	9.3	18.0	18.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	467	8.8	2.9	52.9	32.8	2.7	52.9	0.0	0.2	2.5	58.6	47.5
Slovenia	452	4.6	3.5	45.0	43.4	3.6	45.0	0.0	0.0	3.6	41.8	47.4
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	242	8.3	3.0	58.0	30.3	0.4	58.0	0.0	0.0	0.4	53.2	60.4
Switzerland	361	6.5	6.8	26.8	52.4	7.4	26.8	0.1	0.0	7.3	30.8	23.5
United States	786	5.1	5.7	44.3	43.0	1.9	44.3	0.0	0.0	1.9	46.1	42.3
INTERNATIONAL AVG	.	7.2	6.3	36.0	45.9	4.5	36.0	0.2	0.1	4.3	34.6	36.9

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

Item: J05 KEY: C
 DERIVATIVE OF EXPONENTIAL FUNCTION (Calculus)
 Difficulty: 506

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	8.5	8.4	76.8	2.7	3.6	0.0	76.8	0.0	0.0	0.0	84.0	71.5
Austria	200	11.6	22.0	45.3	12.3	6.9	1.8	45.3	0.0	0.7	1.1	33.3	64.2
Canada	780	6.8	25.9	53.1	8.5	4.3	1.4	53.1	0.0	0.0	1.4	52.7	53.3
Cyprus	102	2.2	2.7	92.1	1.0	2.0	0.0	92.1	0.0	0.0	0.0	97.4	90.0
Czech Republic	288	26.2	20.1	40.4	7.7	2.2	3.3	40.4	0.5	0.0	2.8	35.3	47.0
Denmark	444	14.2	19.8	53.5	7.7	1.6	3.2	53.5	0.0	0.1	3.1	52.5	55.1
France	268	2.9	2.4	92.6	0.5	0.4	1.3	92.6	0.1	0.0	1.1	90.2	94.5
Germany	750	7.3	26.1	51.6	7.9	4.1	2.9	51.6	0.3	0.4	2.2	47.0	57.0
Greece	121	5.3	1.8	86.8	4.3	1.1	0.7	86.8	0.0	0.0	0.7	92.3	84.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	2.0	1.5	89.2	3.0	2.0	2.5	89.2	0.5	0.0	2.0	90.1	88.0
Italy	126	8.2	15.0	64.9	6.7	3.6	1.6	64.9	0.0	0.0	1.6	75.8	59.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	17.5	13.2	59.6	2.0	1.1	6.5	59.6	0.0	0.0	6.5	67.0	51.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	12.8	5.8	73.2	2.7	2.4	3.1	73.2	0.0	0.4	2.6	71.6	74.8
Slovenia	452	7.2	13.6	58.3	11.0	2.2	7.6	58.3	0.0	0.0	7.6	61.0	56.8
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	16.1	16.4	57.5	6.7	2.7	0.5	57.5	0.0	0.0	0.5	61.8	55.4
Switzerland	361	14.4	15.1	57.3	8.6	3.0	1.6	57.3	0.3	0.0	1.3	53.4	60.6
United States	786	35.6	17.1	34.3	6.6	4.4	1.9	34.3	0.0	0.0	1.9	35.2	33.4
INTERNATIONAL AVG	.	11.7	13.3	63.9	5.9	2.8	2.3	63.9	0.1	0.1	2.1	64.7	64.6

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

Item: J06 KEY: D
 RADIUS OF CYLINDER WHILE MAXIMIZING VOLUME (Calculus)
 Difficulty: 654

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	10.8	18.7	14.4	34.9	21.1	0.0	34.9	0.0	0.0	0.0	31.3	37.6
Austria	200	6.5	10.6	17.9	34.5	26.4	4.0	34.5	0.0	0.7	3.3	30.3	42.6
Canada	780	9.2	17.0	16.7	34.4	21.5	1.2	34.4	0.0	0.0	1.2	27.6	40.5
Cyprus	102	8.7	16.1	28.4	35.8	9.3	1.7	35.8	0.0	0.0	1.7	26.1	44.1
Czech Republic	288	8.1	12.0	12.7	36.3	22.9	8.0	36.3	3.3	0.0	4.7	29.9	44.6
Denmark	444	10.0	14.7	15.6	35.1	14.0	10.6	35.1	0.3	0.1	10.2	31.6	36.2
France	268	9.6	17.3	11.1	30.7	21.3	10.1	30.7	0.7	0.0	9.4	33.8	29.3
Germany	750	5.5	13.2	11.3	29.1	26.8	14.1	29.1	3.3	0.4	10.3	25.0	35.3
Greece	121	11.4	15.8	12.0	34.4	14.9	11.6	34.4	0.0	0.0	11.6	37.9	33.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	9.4	18.7	17.2	35.5	13.3	5.9	35.5	0.0	0.0	5.9	27.5	41.0
Italy	126	5.8	14.6	9.8	35.9	24.4	9.6	35.9	0.0	0.0	9.6	22.9	41.9
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	5.1	10.1	7.6	43.5	23.6	10.1	43.5	0.0	0.0	10.1	42.4	44.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	5.1	13.6	10.3	48.2	13.3	9.4	48.2	0.2	0.8	8.4	50.9	45.6
Slovenia	452	5.9	16.8	18.7	26.3	16.5	15.9	26.3	1.3	0.0	14.6	22.3	31.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	242	5.6	23.6	13.2	41.7	14.6	1.3	41.7	0.0	0.0	1.3	48.9	38.0
Switzerland	361	6.0	12.1	9.4	43.1	19.2	10.3	43.1	1.3	0.0	9.0	32.5	52.0
United States	786	11.8	13.9	19.6	25.3	27.1	2.3	25.3	0.0	0.0	2.3	25.2	25.4
INTERNATIONAL AVG	.	7.9	15.2	14.5	35.6	19.4	7.4	35.6	0.6	0.1	6.7	32.1	39.0

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

Item: J07 KEY: E
 EQUATION OF PERPENDICULAR LINE (Geometry)
 Difficulty: 597

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	18.1	7.9	9.3	10.5	53.8	0.5	53.8	0.0	0.0	0.5	61.4	48.2
Austria	200	33.4	4.4	18.0	8.1	29.2	7.0	29.2	0.0	0.7	6.3	23.0	39.3
Canada	780	22.6	4.9	11.1	9.3	50.7	1.5	50.7	0.0	0.0	1.5	47.8	53.1
Cyprus	102	23.4	4.0	7.1	1.8	63.7	0.0	63.7	0.0	0.0	0.0	60.8	65.0
Czech Republic	288	26.3	2.7	5.0	8.6	46.4	11.0	46.4	1.4	0.0	9.6	37.8	57.6
Denmark	444	25.6	2.9	4.1	4.0	54.9	8.5	54.9	0.5	0.6	7.4	50.8	58.0
France	268	27.1	1.9	5.1	8.1	51.3	6.5	51.3	0.1	0.0	6.3	53.4	49.9
Germany	750	31.9	2.4	9.6	8.5	30.6	16.9	30.6	2.9	0.4	13.6	28.5	33.7
Greece	121	23.1	2.8	6.3	3.4	58.2	6.3	58.2	0.0	0.0	6.3	49.7	62.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	202	17.8	3.0	3.0	6.4	67.3	2.5	67.3	0.0	0.5	2.0	71.1	66.0
Italy	126	14.5	0.4	20.2	13.6	45.3	6.1	45.3	0.0	0.0	6.1	59.2	38.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	31.3	1.2	1.2	2.9	41.7	21.7	41.7	0.0	0.0	21.7	38.3	45.1
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	31.5	1.4	5.2	4.7	42.0	15.1	42.0	0.0	0.8	14.3	42.7	41.3
Slovenia	452	12.7	4.5	10.4	7.5	54.6	10.3	54.6	0.5	0.0	9.7	51.8	55.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	240	25.4	8.3	14.1	8.6	40.4	3.3	40.4	0.4	0.0	2.9	38.9	41.1
Switzerland	361	30.6	2.9	6.3	5.2	45.3	9.6	45.3	0.1	0.2	9.3	42.1	48.1
United States	786	19.6	10.3	16.7	12.0	37.8	3.7	37.8	0.0	0.0	3.6	39.2	36.2
INTERNATIONAL AVG	.	24.4	3.9	9.0	7.2	47.8	7.7	47.8	0.4	0.2	7.1	46.9	49.4

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

Item: J08 KEY: B
 DIFFERENCE OF TWO VECTORS (Geometry)
 Difficulty: 483

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	1.9	67.6	21.6	4.4	4.0	0.5	67.6	0.0	0.0	0.5	64.9	69.6
Austria	200	1.6	59.4	24.6	3.8	3.8	6.9	59.4	0.0	0.7	6.2	55.2	64.2
Canada	780	2.0	66.0	23.3	2.6	3.1	2.9	66.0	0.0	0.0	2.9	65.0	67.1
Cyprus	102	5.4	60.6	25.1	5.0	1.0	2.9	60.6	0.0	0.0	2.9	59.3	60.6
Czech Republic	288	0.9	69.2	26.3	0.4	1.3	1.9	69.2	0.4	0.0	1.6	63.5	76.5
Denmark	444	0.1	78.0	19.6	0.0	0.1	2.2	78.0	0.0	0.6	1.6	82.1	75.9
France	268	0.8	82.7	12.7	0.0	2.3	1.6	82.7	0.1	0.0	1.4	83.4	82.1
Germany	750	0.6	76.2	19.0	0.7	0.8	2.8	76.2	0.0	0.4	2.4	75.8	78.0
Greece	121	0.8	74.1	17.7	1.0	2.6	3.8	74.1	0.0	0.0	3.8	80.5	71.9
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	202	0.0	61.9	12.9	2.0	2.0	21.3	61.9	0.0	0.5	20.8	53.3	71.0
Italy	126	6.7	51.9	23.4	1.7	3.1	13.1	51.9	0.0	0.0	13.1	54.6	50.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	1.7	66.0	15.7	0.2	2.2	14.1	66.0	0.0	0.0	14.1	64.9	67.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	0.2	75.5	18.2	0.5	2.1	3.6	75.5	0.0	1.6	2.0	78.7	72.4
Slovenia	452	1.2	50.4	32.4	4.9	2.6	8.5	50.4	0.0	0.0	8.5	50.1	51.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	242	2.0	63.8	21.9	2.6	5.6	4.2	63.8	0.0	0.3	4.0	62.9	64.2
Switzerland	361	0.0	78.7	18.9	0.3	1.1	1.0	78.7	0.0	0.2	0.8	77.9	79.3
United States	.	.	.	.	.	.	.	.	.	.	.	.	.
INTERNATIONAL AVG	.	1.6	67.6	20.8	1.9	2.4	5.7	67.6	0.0	0.3	5.4	67.0	68.9

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

Item: J09 KEY: B
 EQUATION REPRESENTING SET OF POINTS (Geometry)
 Difficulty: 719

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	20.8	30.2	31.7	14.2	3.0	30.2	0.0	0.0	3.0	18.0	39.2
Austria	200	19.7	19.1	38.6	8.4	14.2	19.1	0.0	0.7	13.4	15.7	23.8
Canada	780	29.9	21.8	31.2	13.8	3.3	21.8	0.4	0.0	2.9	17.1	26.1
Cyprus	102	18.4	33.9	28.8	16.1	2.8	33.9	0.0	0.0	2.8	27.1	38.5
Czech Republic	288	26.7	12.2	38.1	5.7	17.4	12.2	3.0	0.0	14.4	7.9	17.7
Denmark	444	13.9	18.1	27.0	5.1	35.9	18.1	1.2	0.6	34.2	11.3	20.2
France	268	23.4	32.0	20.8	5.8	18.1	32.0	0.0	0.0	18.1	24.9	35.0
Germany	750	15.9	18.2	28.8	6.6	30.5	18.2	2.9	0.4	27.1	15.9	21.9
Greece	121	9.5	40.2	22.0	17.0	11.4	40.2	0.0	0.0	11.4	46.8	37.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	26.6	35.5	19.7	9.4	8.9	35.5	0.5	0.5	7.9	31.9	39.0
Italy	126	20.8	30.4	22.3	8.1	18.5	30.4	1.6	0.0	16.9	37.5	27.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	13.3	22.6	15.6	14.1	34.3	22.6	0.0	0.0	34.3	20.3	25.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	16.9	29.5	18.0	9.6	26.0	29.5	0.0	1.6	24.4	26.5	32.4
Slovenia	452	24.2	13.5	30.2	6.2	25.9	13.5	0.3	0.0	25.6	10.0	17.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	237	22.6	28.8	27.8	11.3	9.5	28.8	0.0	0.3	9.2	22.3	32.2
Switzerland	361	22.2	24.6	26.9	7.7	18.6	24.6	0.0	0.2	18.4	24.8	24.4
United States	786	26.7	19.4	36.5	9.0	8.5	19.4	0.0	0.0	8.5	18.0	20.9
INTERNATIONAL AVG	.	20.7	25.3	27.3	9.9	16.9	25.3	0.6	0.3	16.0	22.1	28.1

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

Item: J10 KEY: C
 VALUE OF VECTOR IN TRIANGLE (Geometry)
 Difficulty: 636

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	19.3	15.0	46.5	4.8	10.0	4.4	46.5	0.0	0.0	4.4	47.0	46.2
Austria	200	18.9	20.8	22.3	11.7	8.2	18.0	22.3	0.0	0.7	17.3	18.1	27.6
Canada	780	19.0	13.4	44.4	8.5	11.7	3.0	44.4	0.0	0.0	3.0	39.9	48.5
Cyprus	102	13.5	11.8	54.7	5.8	10.9	3.1	54.7	0.0	0.0	3.1	48.0	60.5
Czech Republic	288	14.5	17.3	29.2	9.3	10.0	19.7	29.2	5.0	0.0	14.7	28.5	30.2
Denmark	444	14.3	17.2	33.9	2.9	8.1	23.6	33.9	0.2	0.7	22.7	28.9	36.0
France	268	34.8	5.2	38.4	1.2	8.2	12.2	38.4	1.2	0.0	11.1	40.3	38.1
Germany	750	13.6	10.8	37.2	6.2	10.1	22.1	37.2	4.6	0.4	17.1	33.8	39.2
Greece	121	16.4	3.5	51.9	1.6	13.6	12.9	51.9	0.0	0.0	12.9	49.1	52.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	11.3	6.4	41.4	9.9	8.4	22.7	41.4	0.0	0.5	22.2	37.4	45.0
Italy	126	17.3	13.4	24.8	6.4	11.8	26.3	24.8	0.0	0.0	26.3	22.2	26.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	8.6	4.5	44.2	2.0	11.2	29.5	44.2	0.0	0.0	29.5	42.2	46.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	18.6	3.6	53.2	0.3	9.8	14.6	53.2	0.2	1.7	12.7	46.7	59.4
Slovenia	452	12.6	11.0	46.7	6.0	10.3	13.4	46.7	0.0	0.0	13.4	44.3	51.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	238	15.0	34.7	17.0	15.8	9.8	7.9	17.0	0.4	0.3	7.2	22.7	14.1
Switzerland	361	11.1	12.2	44.0	5.2	11.5	15.9	44.0	0.6	0.3	15.0	38.3	48.8
United States	786	21.2	19.4	27.5	9.6	12.0	10.3	27.5	0.0	0.0	10.3	26.5	28.5
INTERNATIONAL AVG	.	16.5	12.9	38.7	6.3	10.3	15.3	38.7	0.7	0.3	14.3	36.1	41.1

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

Item: J11 KEY: A
 SHAPE CREATED BY ROTATING LINE (Geometry)
 Difficulty: 462

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	59.2	7.1	5.4	22.2	6.1	0.0	59.2	0.0	0.0	0.0	51.6	64.8
Austria	200	77.1	6.3	4.1	9.3	1.7	1.5	77.1	0.0	0.7	0.8	72.7	83.6
Canada	780	60.9	6.4	8.9	18.1	5.1	0.6	60.9	0.0	0.0	0.6	53.6	67.6
Cyprus	102	75.1	7.6	2.8	11.4	1.0	2.2	75.1	0.0	0.0	2.2	79.9	72.1
Czech Republic	288	70.0	3.8	5.9	12.1	7.5	0.8	70.0	0.0	0.0	0.8	58.9	84.4
Denmark	444	88.9	0.6	2.0	5.4	0.7	2.5	88.9	0.0	0.7	1.8	87.5	89.6
France	268	70.6	4.4	3.8	12.4	8.2	0.7	70.6	0.0	0.0	0.7	67.5	71.6
Germany	750	79.3	6.4	3.3	7.2	1.4	2.3	79.3	0.4	0.4	1.5	75.1	86.6
Greece	121	44.7	3.8	9.1	32.2	7.4	2.8	44.7	0.0	0.0	2.8	38.5	48.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	78.8	7.4	9.9	1.5	0.0	2.5	78.8	0.0	0.5	2.0	75.8	82.0
Italy	126	76.3	7.4	6.9	8.8	0.3	0.2	76.3	0.0	0.0	0.2	77.7	75.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	75.9	2.7	2.6	7.4	6.8	4.6	75.9	0.0	0.0	4.6	74.7	77.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	467	83.1	2.0	1.9	8.1	1.3	3.6	83.1	0.4	1.7	1.5	80.8	85.2
Slovenia	452	56.3	7.6	8.4	16.3	9.7	1.7	56.3	0.0	0.0	1.7	54.6	59.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	90.0	0.4	1.6	7.2	0.0	0.8	90.0	0.0	0.3	0.5	85.3	92.3
Switzerland	361	80.0	3.8	3.6	10.6	0.5	1.4	80.0	0.0	0.3	1.1	74.6	84.6
United States	786	57.9	3.9	4.6	27.6	5.6	0.4	57.9	0.0	0.0	0.4	50.4	65.8
INTERNATIONAL AVG	.	72.0	4.8	5.0	12.8	3.7	1.7	72.0	0.0	0.3	1.3	68.2	75.9

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

Item: J12 KEY: B
 GRAPH OF AVERAGE WEEKLY RAINFALL (Probability & Statistics)
 Difficulty: 383

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	1.8	78.7	17.4	1.3	0.8	0.0	78.7	0.0	0.0	0.0	61.9	91.1
Austria	200	0.5	88.5	10.1	0.2	0.0	0.7	88.5	0.0	0.7	0.0	86.4	92.3
Canada	780	0.7	87.9	8.7	1.4	1.2	0.1	87.9	0.0	0.0	0.1	88.7	87.1
Cyprus	102	1.0	78.6	13.6	3.4	2.2	1.2	78.6	0.0	0.0	1.2	81.6	77.3
Czech Republic	288	2.2	82.1	12.4	0.9	1.7	0.6	82.1	0.0	0.0	0.6	79.9	85.0
Denmark	444	0.3	85.7	10.5	0.7	0.3	2.6	85.7	1.2	0.7	0.7	86.6	85.0
France	268	0.2	84.8	10.2	0.8	1.5	2.6	84.8	0.2	0.0	2.5	82.5	85.8
Germany	750	1.0	88.3	6.8	1.6	0.6	1.7	88.3	0.2	0.6	0.9	87.7	89.4
Greece	121	9.1	63.9	16.3	4.1	2.6	4.1	63.9	0.0	0.0	4.1	59.1	66.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	1.0	79.8	15.8	1.0	0.5	2.0	79.8	0.0	1.0	1.0	83.5	81.0
Italy	126	0.9	71.0	14.2	2.1	4.4	7.5	71.0	0.0	0.0	7.5	59.3	76.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	2.4	84.4	9.3	0.8	0.2	2.8	84.4	0.0	0.0	2.8	79.5	89.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	3.9	72.6	13.2	2.9	0.9	6.5	72.6	0.0	1.7	4.8	66.8	78.1
Slovenia	452	2.0	81.5	12.5	0.9	0.3	2.8	81.5	0.0	0.0	2.8	79.2	83.4
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	243	0.2	84.4	13.6	0.6	0.2	1.0	84.4	0.0	0.8	0.2	88.5	82.4
Switzerland	361	0.0	89.0	9.2	0.1	0.1	1.6	89.0	0.9	0.3	0.4	87.9	89.8
United States	786	3.4	85.4	8.8	1.5	0.9	0.0	85.4	0.0	0.0	0.0	83.9	86.9
INTERNATIONAL AVG	.	1.8	81.6	11.9	1.4	1.1	2.2	81.6	0.1	0.3	1.7	79.0	84.0

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

Item: J13 KEY: D
 OVERALL AVERAGE TEST SCORE (Probability & Statistics)
 Difficulty: 582

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	0.0	2.6	38.3	58.8	0.2	0.0	58.8	0.0	0.0	53.0	63.0
Austria	200	3.1	1.4	50.6	44.3	0.0	0.7	44.3	0.7	0.0	37.7	53.6
Canada	780	1.0	2.6	35.0	60.0	0.6	0.8	60.0	0.1	0.7	46.4	72.3
Cyprus	102	0.8	5.2	42.9	49.0	2.1	0.0	49.0	0.0	0.0	40.3	54.7
Czech Republic	288	0.0	2.4	52.0	42.4	0.5	2.6	42.4	0.0	2.6	38.4	47.6
Denmark	444	0.1	1.4	23.0	72.5	0.1	2.9	72.5	0.7	2.2	62.3	77.4
France	268	0.0	0.4	32.1	66.1	1.2	0.3	66.1	0.0	0.3	59.2	69.1
Germany	750	1.6	2.4	39.6	51.0	0.6	4.7	51.0	0.9	3.8	45.8	59.0
Greece	121	3.6	10.6	52.6	29.8	1.2	2.2	29.8	0.0	2.2	26.9	31.4
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	0.0	4.4	18.7	72.9	0.5	3.4	72.9	1.0	2.5	65.9	80.0
Italy	126	6.4	1.8	42.2	43.2	0.0	6.3	43.2	0.3	6.0	27.6	50.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	250	0.0	0.5	56.3	36.4	1.6	5.3	36.4	0.3	4.9	24.9	48.1
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	1.0	1.1	47.1	39.5	3.2	8.1	39.5	1.7	6.3	28.3	50.3
Slovenia	452	1.3	3.9	58.2	30.8	0.6	5.3	30.8	0.0	5.3	19.6	41.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	243	0.4	0.0	30.7	67.3	0.2	1.4	67.3	1.0	0.4	55.5	73.4
Switzerland	361	0.5	0.2	22.6	75.4	0.4	0.9	75.4	0.3	0.6	64.5	84.6
United States	786	1.5	2.7	52.6	41.3	1.4	0.5	41.3	0.0	0.5	28.7	54.6
INTERNATIONAL AVG	.	1.3	2.6	40.8	51.8	0.8	2.7	51.8	0.4	2.3	42.7	59.5

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

Item: J14 KEY: B
 INTEGRAL OF FUNCTION (Calculus)
 Difficulty: 550

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	185	5.2	66.6	12.3	11.5	2.9	1.5	66.6	0.0	0.0	1.5	87.1	51.4
Austria	200	6.5	45.0	17.8	8.9	14.3	7.6	45.0	0.0	0.7	6.9	34.8	61.0
Canada	780	9.4	38.1	24.7	6.5	15.4	6.0	38.1	0.0	0.1	5.9	32.6	43.1
Cyprus	102	2.2	80.4	5.5	4.9	7.0	0.0	80.4	0.0	0.0	0.0	78.8	81.8
Czech Republic	288	7.8	37.3	12.7	7.6	13.5	21.1	37.3	1.9	0.0	19.3	33.2	42.7
Denmark	444	6.0	66.2	7.2	4.4	4.7	11.5	66.2	0.0	0.8	10.7	67.3	65.9
France	268	2.0	76.9	8.0	3.4	3.3	6.4	76.9	0.0	0.0	6.4	65.3	83.6
Germany	750	4.9	36.5	16.6	8.8	9.8	23.3	36.5	1.7	1.5	20.2	34.1	37.8
Greece	121	2.8	67.8	7.1	6.1	9.8	6.4	67.8	0.0	0.0	6.4	71.4	65.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Italy	126	2.5	61.2	12.9	4.8	6.6	11.9	61.2	1.8	1.3	8.8	60.6	61.5
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	2.7	59.8	5.5	1.5	6.9	23.6	59.8	0.0	2.3	21.3	53.1	66.8
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	1.1	72.1	4.5	3.7	6.4	12.2	72.1	0.0	2.2	10.0	69.7	74.5
Slovenia	452	3.3	33.4	11.4	6.4	5.7	39.9	33.4	1.8	0.5	37.7	28.4	36.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	242	5.8	54.5	14.8	4.1	16.4	4.3	54.5	0.0	1.4	2.9	44.1	59.8
Switzerland	361	4.0	53.9	14.2	4.4	8.7	14.8	53.9	0.0	0.3	14.5	42.8	63.3
United States	786	6.4	44.6	24.0	7.2	10.2	7.6	44.6	0.0	0.0	7.6	41.5	47.9
INTERNATIONAL AVG	.	4.5	55.9	12.5	5.9	8.8	12.4	55.9	0.4	0.7	11.3	52.8	59.0

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

Item: J15A
 FUNCTION/WHERE NOT CONTINUOUS (Calculus)
 Difficulty: 571

COUNTRY	N	10	70	71	72	74	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
											REACH		% Right	% Right
Australia	185	53.8	2.1	2.2	8.8	0.0	24.7	0.0	8.4	53.8	0.0	8.4	47.1	58.6
Austria	200	30.5	4.8	2.7	0.5	8.3	18.0	6.0	29.2	30.5	1.4	27.7	18.7	46.6
Canada	780	60.8	1.9	2.3	4.7	2.7	20.2	0.6	6.8	60.8	0.2	6.6	53.0	67.8
Cyprus	102	53.8	0.0	8.4	2.0	1.0	15.1	0.0	19.7	53.8	0.0	19.7	60.2	48.5
Czech Republic	288	47.7	1.0	5.7	3.4	2.6	10.6	1.4	27.6	47.7	0.0	27.6	41.4	55.9
Denmark	444	55.5	2.4	1.9	1.4	5.7	17.4	0.9	14.8	55.5	1.2	13.6	51.8	56.4
France	268	83.1	2.3	2.6	3.6	1.6	4.4	0.0	2.4	83.1	0.0	2.4	78.1	85.7
Germany	750	32.6	6.9	1.0	1.1	8.9	14.7	9.5	25.5	32.6	2.5	23.0	28.2	37.1
Greece	121	67.4	9.3	2.5	0.8	1.5	1.7	0.8	16.0	67.4	1.2	14.8	58.2	72.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	48.3	1.5	2.5	7.9	5.4	13.3	0.0	21.2	48.3	1.0	20.2	45.1	52.0
Italy	126	56.7	1.3	4.7	1.2	0.3	10.6	0.3	24.8	56.7	2.9	21.9	56.5	56.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	250	29.3	2.9	1.3	1.3	3.7	7.9	1.9	51.6	29.3	3.6	48.0	21.0	37.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	53.7	0.4	0.3	3.9	1.2	14.8	0.4	25.3	53.7	3.7	21.6	52.6	54.7
Slovenia	452	58.1	1.3	5.8	1.2	0.2	9.3	0.4	23.6	58.1	1.5	22.1	52.9	62.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	36.9	6.0	1.6	0.6	12.8	17.5	0.0	24.6	36.9	2.4	22.1	40.0	35.3
Switzerland	361	55.1	3.6	0.4	2.3	3.7	12.9	2.6	19.3	55.1	1.2	18.1	51.7	58.0
United States	786	45.9	1.4	3.7	4.3	1.8	29.1	2.4	11.4	45.9	0.0	11.4	43.0	48.9
INTERNATIONAL AVG	.	51.1	2.9	2.9	2.9	3.6	14.3	1.6	20.7	51.1	1.3	19.4	47.0	55.0

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: J15B
 FUNCTION/WHERE NOT DIFFERENTIABLE (Calculus)
 Difficulty: 896

COUNTRY	N	10	70	71	72	73	74	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH			OMIT	% Right	% Right
												ED			
Australia	185	7.2	24.7	6.4	29.5	7.6	0.0	12.3	0.0	12.4	7.2	2.3	10.1	3.0	10.2
Austria	200	5.7	28.6	3.6	2.8	2.3	0.0	8.3	7.0	41.8	5.7	2.6	39.3	2.3	11.0
Canada	780	9.7	33.0	4.6	9.7	8.8	0.0	18.7	1.2	14.2	9.7	0.5	13.7	4.9	14.0
Cyprus	102	0.0	23.5	3.1	28.0	2.1	0.0	13.5	0.0	29.8	0.0	8.1	21.7	0.0	0.0
Czech Republic	288	5.8	24.2	1.4	5.1	5.9	0.3	9.8	0.9	46.5	5.8	2.1	44.4	2.2	10.5
Denmark	444	27.0	20.6	5.6	6.6	3.5	0.3	10.2	0.5	25.9	27.0	4.1	21.8	20.5	30.5
France	268	7.3	60.9	2.9	2.9	6.7	0.2	10.8	0.2	8.1	7.3	0.0	8.1	4.9	8.5
Germany	750	10.3	29.0	3.0	6.9	1.7	0.1	6.4	12.2	30.3	10.3	3.2	27.0	7.5	14.0
Greece	121	7.4	38.4	14.3	4.2	0.7	0.6	6.1	1.5	26.8	7.4	4.8	22.0	3.7	9.2
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	2.0	20.2	3.9	35.0	5.4	1.5	5.9	0.0	26.1	2.0	1.5	24.6	0.0	4.0
Italy	126	11.4	29.2	7.1	5.4	4.9	1.0	10.8	0.0	30.2	11.4	5.8	24.4	6.1	13.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	4.6	11.1	0.9	1.4	0.5	0.0	12.9	0.5	68.0	4.6	9.9	58.2	2.0	7.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	17.5	25.9	2.9	6.8	0.6	0.1	8.3	0.0	37.9	17.5	4.8	33.1	15.1	19.7
Slovenia	452	2.2	16.7	2.4	13.8	2.0	0.0	8.9	2.3	51.7	2.2	2.8	48.8	1.5	3.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	1.6	27.4	1.8	32.3	1.6	0.0	10.0	0.5	24.9	1.6	8.2	16.7	0.8	2.1
Switzerland	361	16.3	31.7	5.0	6.1	2.3	0.0	7.2	5.3	26.2	16.3	1.9	24.3	9.4	22.1
United States	786	7.9	26.8	4.8	5.3	6.7	0.2	25.5	6.1	16.7	7.9	0.9	15.8	8.4	7.4
INTERNATIONAL AVG	.	8.5	27.8	4.3	11.9	3.7	0.3	10.9	2.2	30.4	8.5	3.7	26.7	5.4	11.0

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: J16A
 TRIANGLE ABC/REFLECTION (Geometry)
 Difficulty: 473

COUNTRY	N	10	11	70	71	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
										REACH		% Right	% Right
										ED			
Australia	185	61.3	1.3	9.8	4.9	16.1	1.0	5.6	62.6	2.8	2.8	62.1	62.9
Austria	200	62.6	9.2	7.3	1.5	9.6	2.4	7.4	71.8	3.4	3.9	64.4	81.8
Canada	780	52.2	12.3	6.9	4.5	20.5	0.7	2.7	64.6	0.6	2.1	60.1	68.7
Cyprus	102	55.9	6.0	4.2	1.0	18.6	0.0	14.4	61.9	10.1	4.3	63.3	61.6
Czech Republic	288	78.8	0.8	7.1	4.9	3.7	1.2	3.5	79.6	2.1	1.4	77.8	81.9
Denmark	444	72.2	9.2	8.5	0.2	4.3	0.5	5.0	81.4	4.1	0.9	84.9	79.4
France	268	86.7	1.0	5.1	0.7	3.6	0.2	2.7	87.7	0.0	2.7	83.9	90.0
Germany	749	80.6	1.2	4.6	2.3	4.7	1.4	5.2	81.8	3.4	1.8	81.1	84.2
Greece	121	60.8	0.0	16.0	0.0	4.4	9.6	9.2	60.8	5.5	3.6	58.2	62.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	203	53.7	4.9	8.4	4.4	17.7	1.5	9.4	58.6	1.5	7.9	54.9	62.0
Italy	126	66.7	5.3	4.9	3.2	7.6	1.3	11.0	72.0	5.9	5.1	72.0	71.9
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	56.7	4.6	3.6	6.9	6.3	6.9	15.0	61.4	9.9	5.1	55.6	67.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	74.9	5.1	3.9	2.3	7.4	0.0	6.4	80.0	5.2	1.2	79.4	80.6
Slovenia	452	70.5	0.3	2.0	0.0	20.9	1.6	4.8	70.8	2.8	1.9	68.9	72.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	39.7	1.7	9.9	7.8	17.5	0.4	23.1	41.4	9.3	13.8	28.9	47.8
Switzerland	361	75.8	6.3	6.2	2.9	4.3	0.1	4.5	82.0	2.8	1.8	82.4	81.7
United States	786	35.1	14.7	8.3	3.6	32.7	1.0	4.5	49.8	0.9	3.6	48.6	51.0
INTERNATIONAL AVG	.	63.8	4.9	6.9	3.0	11.8	1.8	7.9	68.7	4.1	3.8	66.3	71.0

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: J16B
 TRIANGLE ABC/ROTATION (Geometry)
 Difficulty: 731

COUNTRY	N	10	11	70	71	72	73	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH ED			OMIT % Right
Australia	185	26.4	0.0	1.5	2.2	5.4	1.9	42.0	3.0	17.6	26.4	2.8	14.8	27.9	25.2
Austria	200	18.6	0.8	4.3	2.3	1.7	5.0	40.6	6.4	20.3	19.4	3.4	16.9	7.8	37.5
Canada	780	22.2	2.9	3.2	4.3	4.6	4.7	45.1	0.6	12.4	25.1	1.1	11.3	10.9	37.8
Cyprus	102	10.0	0.0	4.9	2.0	1.9	2.9	35.3	0.0	43.0	10.0	11.0	31.9	8.5	11.6
Czech Republic	288	23.1	0.3	4.9	13.8	5.5	9.6	20.6	4.8	17.4	23.4	2.1	15.3	17.5	31.0
Denmark	444	29.3	1.7	12.5	9.3	2.1	8.9	22.7	1.1	12.4	31.0	4.3	8.1	26.3	34.4
France	268	37.3	1.0	6.6	12.6	2.3	1.4	31.3	1.8	5.7	38.3	0.0	5.7	30.8	42.5
Germany	750	23.1	0.2	8.5	3.0	2.0	5.7	30.6	11.4	15.5	23.3	3.6	11.9	18.2	31.9
Greece	121	10.9	0.8	36.3	1.3	1.0	0.0	6.2	5.8	37.7	11.7	6.3	31.4	10.5	12.4
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Italy	126	27.7	0.2	7.5	4.6	2.7	4.2	18.4	1.3	33.5	27.8	5.9	27.6	15.3	33.6
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	251	22.8	6.8	0.9	3.6	1.3	3.6	16.9	8.4	35.7	29.6	10.6	25.1	23.1	36.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	468	37.8	1.5	1.9	4.4	2.2	5.3	20.6	1.4	24.9	39.3	5.5	19.4	27.4	50.8
Slovenia	452	10.5	0.0	20.1	0.5	6.2	0.0	27.7	2.8	32.2	10.5	2.8	29.4	6.1	15.8
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	244	11.6	0.3	4.1	4.8	1.7	2.9	35.4	0.9	38.2	11.9	13.5	24.7	6.7	14.6
Switzerland	361	44.7	0.9	10.2	5.8	2.4	5.4	15.3	2.2	13.1	45.6	2.9	10.2	40.3	50.0
United States	786	9.3	1.4	3.9	5.2	3.1	3.8	57.4	2.0	13.9	10.7	1.0	12.9	7.4	14.2
INTERNATIONAL AVG	.	22.8	1.2	8.2	5.0	2.9	4.1	29.1	3.4	23.3	24.0	4.8	18.5	17.8	30.0

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: J17
 LIMIT OF PERIMETER OF POLYGON CONTAINED IN A CIRCLE (Calculus)
 Difficulty: 661

COUNTRY	N	20	21	10	11	70	71	72	73	74	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																REACH			OMIT	% Right
															ED					
Australia	185	28.5	17.4	0.0	1.9	0.5	4.9	0.9	2.9	0.0	23.8	0.4	18.7	47.8	45.9	4.6	14.1	42.4	48.5	
Austria	200	14.4	5.2	0.0	11.6	0.0	5.6	2.1	7.3	0.3	13.1	18.5	21.8	31.2	19.6	7.7	14.1	11.5	30.8	
Canada	780	21.5	5.9	0.0	6.4	0.0	7.0	4.1	4.3	1.2	27.7	5.2	16.7	33.8	27.4	2.5	14.2	17.5	36.2	
Cyprus	102	19.2	2.8	0.0	4.6	1.1	2.4	1.0	3.0	0.0	13.8	1.0	51.1	26.7	22.0	18.8	32.2	18.5	25.6	
Czech Republic	288	14.7	2.2	0.0	4.0	0.8	4.3	0.9	1.7	0.6	5.8	15.0	50.0	20.9	16.9	7.7	42.4	3.3	34.6	
Denmark	444	31.6	4.5	0.0	6.5	0.0	7.1	3.0	1.5	0.0	7.0	0.7	38.2	42.6	36.1	7.1	31.1	26.8	40.9	
France	268	41.1	3.1	0.2	11.1	0.0	3.6	5.2	4.2	1.5	6.6	0.2	23.2	55.5	44.3	0.0	23.2	28.1	51.9	
Germany	750	18.9	6.8	0.5	10.1	1.2	7.6	6.5	7.5	0.1	11.8	14.2	14.7	36.3	25.7	6.0	8.8	19.0	36.6	
Greece	121	12.1	0.9	16.9	0.0	4.0	0.0	1.6	0.0	0.0	0.5	5.9	58.1	30.0	13.1	10.0	48.1	7.5	15.7	
Hungary
Iceland
Israel	203	28.1	2.5	1.0	9.9	0.0	3.9	1.5	5.4	0.5	7.4	0.5	39.4	41.4	30.5	3.0	36.5	24.2	39.0	
Italy	126	36.6	4.9	5.9	10.6	0.0	1.9	1.6	6.4	1.0	5.1	0.2	25.9	58.0	41.5	7.5	18.4	21.8	50.6	
Latvia (LSS)
Lithuania	251	27.1	0.3	0.0	8.0	0.0	2.6	1.1	0.9	0.5	3.0	5.1	51.5	35.4	27.4	17.6	33.9	21.2	33.8	
Netherlands
New Zealand
Norway
Russian Federation	467	35.0	3.7	0.4	7.5	0.6	2.6	1.1	1.3	0.6	6.4	0.9	40.0	46.6	38.7	11.1	28.8	29.0	48.0	
Slovenia	452	7.7	0.5	2.0	5.7	6.7	0.8	5.7	9.5	0.0	11.2	10.9	39.2	15.9	8.2	10.3	28.9	2.4	14.9	
South Africa
Sweden	244	18.3	12.3	0.3	3.8	0.0	7.3	1.2	0.0	0.3	7.3	3.5	45.7	34.7	30.6	18.9	26.8	33.1	29.4	
Switzerland
United States	786	12.9	3.1	0.1	2.2	0.0	3.9	8.7	10.7	0.5	40.9	2.9	14.0	18.4	16.0	2.8	11.2	14.6	17.6	
INTERNATIONAL AVG	.	23.0	4.8	1.7	6.5	0.9	4.1	2.9	4.2	0.4	12.0	5.3	34.3	35.9	27.7	8.5	25.8	20.1	34.6	

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: J18
 STEPS FOR MATHEMATICAL INDUCTION (Validation and Structure)
 Difficulty: 698

COUNTRY	N	20	21	22	29	10	11	12	13	19	70	71	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																		REACH			ED	OMIT	% Right	% Right
Australia	185	26.5	9.6	0.0	0.0	2.0	0.0	0.0	0.0	2.3	8.0	0.7	19.5	0.7	30.9	40.3	36.1	7.3	23.6	50.9	25.1	
Austria	200	0.0	0.0	0.7	1.2	0.2	0.0	0.0	0.0	0.3	5.6	0.0	5.7	32.0	54.2	2.5	1.9	13.6	40.6	1.3	3.0	
Canada	780	5.9	2.0	0.5	0.0	0.6	0.0	0.1	0.0	4.0	4.1	0.5	37.9	3.0	41.5	13.1	8.4	7.1	34.3	7.8	8.9	
Cyprus	102	1.0	21.1	0.0	0.0	0.7	0.0	0.0	0.9	2.2	1.0	1.2	16.6	0.9	54.5	25.9	22.1	24.7	29.7	23.0	21.0	
Czech Republic	288	5.8	3.3	2.0	4.7	0.2	0.4	0.0	0.0	2.1	1.9	1.3	19.1	4.3	54.9	18.5	15.8	19.6	35.3	9.4	24.1	
Denmark	444	0.0	0.2	0.3	0.2	0.0	0.0	1.2	0.0	0.2	0.8	0.0	7.0	0.7	89.4	2.2	0.8	21.8	67.6	0.0	1.3	
France
Germany	750	2.1	0.5	0.0	0.5	0.7	0.0	0.2	0.0	0.8	1.4	0.1	7.5	39.4	46.8	4.7	3.1	9.5	37.3	2.0	4.9	
Greece	121	76.7	2.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.3	16.6	80.6	79.5	11.5	5.1	86.5	77.0	
Hungary
Iceland
Israel	203	21.7	36.5	6.4	0.0	3.9	0.0	3.9	0.5	4.4	9.9	2.0	5.4	0.0	5.4	77.3	64.5	3.4	2.0	68.1	61.0	
Italy	126	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	3.6	1.1	0.3	7.6	6.5	80.5	4.0	0.4	11.7	68.9	0.0	0.6	
Latvia (LSS)
Lithuania	251	1.6	14.2	0.4	0.0	2.2	0.0	0.0	0.0	0.0	5.3	0.0	17.8	4.7	53.8	18.4	16.2	25.8	28.0	17.5	15.0	
Netherlands
New Zealand
Norway
Russian Federation	467	6.9	22.0	0.6	0.0	0.2	0.4	1.1	0.0	1.2	2.4	0.7	8.5	2.3	53.8	32.3	29.5	20.4	33.4	21.2	37.4	
Slovenia	452	9.2	18.6	0.0	1.3	2.0	0.0	0.0	0.0	2.6	0.0	0.2	12.8	6.3	47.1	33.7	29.1	20.5	26.6	29.3	27.0	
South Africa
Sweden	244	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.9	7.6	86.0	0.5	0.2	34.3	51.7	0.7	0.0	
Switzerland	361	7.0	5.4	1.7	0.3	1.3	0.0	1.3	1.4	1.6	3.3	1.6	21.5	12.7	41.0	20.0	14.4	7.1	33.9	12.2	16.2	
United States	786	0.0	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.2	0.2	36.4	12.7	47.2	1.3	0.9	6.8	40.4	1.4	0.4	
INTERNATIONAL AVG	.	10.3	8.6	0.8	0.5	1.0	0.1	0.5	0.2	1.6	3.0	0.5	14.3	8.5	50.2	23.5	20.2	15.3	34.9	20.7	20.2	

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: J19
 PROVE THAT E IS MIDPOINT OF QUADRILATERAL (Geometry)
 Difficulty: 630

COUNTRY	N	20	21	22	29	10	11	12	19	70	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																REACH			% Right	% Right
																ED	OMIT			
Australia	185	43.0	8.7	3.7	2.3	1.8	0.2	1.2	5.1	0.8	15.5	2.2	15.6	65.9	57.7	13.7	1.9	69.4	49.1	
Austria	200	28.9	0.5	3.3	1.2	4.2	0.8	1.7	1.9	4.2	11.3	10.9	31.0	42.5	33.9	23.8	7.2	28.3	42.8	
Canada	780	19.5	3.8	2.5	3.6	3.3	1.6	0.5	6.0	0.6	41.8	2.7	14.3	40.6	29.4	11.8	2.5	28.4	30.3	
Cyprus	102	33.6	11.7	4.2	2.1	2.2	7.2	0.8	1.8	0.8	8.9	0.0	26.7	63.6	51.5	25.6	1.0	52.8	49.4	
Czech Republic	288	22.2	3.7	1.0	0.7	2.1	6.1	3.3	4.0	2.1	15.1	6.2	33.5	43.1	27.6	23.8	9.7	23.5	33.0	
Denmark	444	15.4	2.9	2.0	2.6	1.7	2.0	1.3	4.8	3.9	25.1	2.2	36.2	32.6	22.9	34.2	2.0	19.0	25.0	
France	268	38.6	22.5	2.4	1.2	2.1	4.3	1.5	0.2	1.9	9.6	0.2	15.6	72.8	64.7	8.0	7.6	58.0	67.8	
Germany	750	15.3	0.9	1.8	0.9	2.6	0.7	0.2	4.1	4.3	26.1	17.0	26.1	26.4	18.9	20.2	5.9	22.1	15.5	
Greece	121	43.2	4.0	1.7	0.6	1.6	0.0	0.0	0.0	9.4	2.9	0.0	36.6	51.1	49.5	11.5	25.1	45.7	51.7	
Hungary
Iceland
Israel	203	40.4	23.2	11.8	2.0	2.5	3.0	3.9	1.5	0.0	2.5	0.0	9.4	88.2	77.3	3.9	5.4	84.6	74.0	
Italy	126	14.0	0.9	12.1	4.3	4.8	4.1	2.0	6.3	4.1	8.2	2.4	36.7	48.5	31.3	31.8	4.9	29.0	32.4	
Latvia (LSS)
Lithuania	251	14.5	8.9	2.3	0.7	5.5	2.4	0.0	0.0	5.4	12.8	3.2	44.2	34.3	26.4	30.9	13.3	21.7	31.3	
Netherlands
New Zealand
Norway
Russian Federation	467	24.9	16.9	5.0	1.9	1.9	3.5	0.3	2.3	3.3	6.6	1.6	31.7	56.8	48.8	26.7	5.1	48.1	49.5	
Slovenia	451	15.2	1.6	6.5	1.9	6.2	0.0	0.0	1.7	0.0	19.7	6.5	40.9	32.9	25.1	26.4	14.4	29.2	21.6	
South Africa
Sweden	244	6.8	0.2	3.1	2.0	2.2	4.9	0.2	1.3	1.5	20.2	6.2	51.3	20.7	12.0	47.1	4.3	12.4	11.8	
Switzerland	361	19.7	5.5	1.7	3.0	4.5	3.9	1.7	5.6	1.1	23.8	7.8	21.6	45.7	29.9	16.0	5.5	30.1	29.8	
United States	786	13.5	1.6	3.7	2.4	3.0	1.4	0.6	1.4	2.7	47.3	5.3	17.1	27.7	21.3	14.4	2.7	18.7	24.1	
INTERNATIONAL AVG	.	24.0	6.9	4.1	2.0	3.1	2.7	1.1	2.8	2.7	17.5	4.4	28.7	46.7	37.0	21.8	7.0	36.5	37.6	

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: K01 KEY: E
 RELATIONSHIP BETWEEN TWO VARIABLES (Numbers, Equations and Functions)
 Difficulty: 353

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	4.2	4.0	6.5	6.6	78.5	0.2	78.5	0.1	0.0	0.1	72.3	83.3
Austria	202	3.5	7.7	7.7	7.3	72.6	1.3	72.6	0.0	0.3	0.9	63.6	84.0
Canada	807	1.6	3.6	2.9	3.6	88.0	0.3	88.0	0.2	0.0	0.1	85.8	89.8
Cyprus	109	0.9	1.4	1.6	0.6	95.4	0.0	95.4	0.0	0.0	0.0	92.5	97.3
Czech Republic	272	1.1	2.8	5.5	5.6	81.4	3.6	81.4	3.6	0.0	0.0	75.1	90.0
Denmark	422	2.3	1.3	1.2	2.8	89.7	2.8	89.7	2.5	0.0	0.3	90.7	89.9
France	259	0.5	0.5	2.1	1.6	94.9	0.4	94.9	0.2	0.0	0.2	95.5	94.6
Germany	733	2.0	1.2	2.9	7.1	78.1	8.7	78.1	4.6	0.5	3.6	74.6	82.7
Greece	109	3.8	4.3	2.3	6.0	83.6	0.0	83.6	0.0	0.0	0.0	83.5	83.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	0.5	0.5	2.9	2.4	92.7	1.0	92.7	0.5	0.5	0.0	89.9	95.9
Italy	121	2.5	1.6	2.1	9.7	82.4	1.6	82.4	0.0	0.0	1.6	87.4	78.9
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	0.0	2.0	0.6	5.2	90.6	1.5	90.6	0.0	0.0	1.5	89.6	91.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	2.2	4.6	3.9	3.6	84.2	1.6	84.2	0.0	0.0	1.6	82.2	86.2
Slovenia	430	2.4	2.4	4.2	4.5	84.0	2.4	84.0	1.0	0.0	1.4	80.4	87.5
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	1.5	0.0	3.9	4.4	90.2	0.0	90.2	0.0	0.0	0.0	92.1	89.4
Switzerland	360	0.9	0.8	1.1	1.1	95.7	0.4	95.7	0.1	0.0	0.3	94.5	96.5
United States	759	11.4	6.1	5.8	8.5	67.1	1.0	67.1	0.3	0.0	0.8	68.0	66.4
INTERNATIONAL AVG	.	2.4	2.6	3.4	4.7	85.3	1.6	85.3	0.8	0.1	0.7	83.4	87.5

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

Item: K02 KEY: A
 PERMUTATIONS OF BOOKS ON A SHELF (Numbers, Equations and Functions)
 Difficulty: 703

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	53.8	17.6	22.5	5.2	0.0	0.8	53.8	0.0	0.0	0.8	50.2	56.7
Austria	202	8.8	34.6	25.9	20.1	7.0	3.7	8.8	0.0	0.3	3.3	7.9	9.7
Canada	807	29.6	28.1	18.9	19.6	1.8	2.0	29.6	0.0	0.0	2.0	26.5	32.2
Cyprus	109	41.0	27.5	21.8	6.0	0.0	3.8	41.0	0.0	0.0	3.8	36.8	41.7
Czech Republic	272	17.3	30.0	27.7	19.4	1.5	4.2	17.3	2.3	0.0	1.9	12.6	23.7
Denmark	422	28.4	30.5	20.7	15.8	1.2	3.5	28.4	0.1	0.0	3.4	24.6	30.3
France	259	31.3	25.7	32.1	7.9	0.0	3.0	31.3	0.0	0.0	3.0	26.5	34.4
Germany	733	13.7	28.0	20.2	22.6	3.6	11.9	13.7	0.4	0.5	11.1	9.3	19.6
Greece	109	30.2	34.1	23.3	7.3	2.7	2.4	30.2	0.0	0.0	2.4	29.0	30.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	37.9	16.0	23.3	14.6	1.5	6.8	37.9	0.0	0.5	6.3	33.3	45.9
Italy	121	13.9	34.9	18.4	11.6	1.6	19.6	13.9	0.0	0.0	19.6	15.7	12.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	33.0	31.3	13.1	9.6	1.6	11.3	33.0	0.0	0.0	11.3	26.6	39.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	15.8	34.5	16.2	15.4	1.9	16.2	15.8	0.0	0.0	16.2	10.8	20.8
Slovenia	430	41.3	17.7	22.3	10.7	0.8	7.2	41.3	0.3	0.0	6.9	39.4	43.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	24.4	20.9	16.2	30.3	5.4	2.8	24.4	0.0	0.0	2.8	21.3	25.6
Switzerland	360	33.9	19.6	21.1	14.1	3.2	8.2	33.9	0.0	0.0	8.2	29.2	35.8
United States	759	16.4	35.9	18.3	27.3	1.4	0.8	16.4	0.1	0.0	0.7	16.8	16.0
INTERNATIONAL AVG	.	27.7	27.5	21.3	15.1	2.1	6.4	27.7	0.2	0.1	6.1	24.5	30.5

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

Item: K03 KEY: C
 LINEAR ACCELERATION OF AN OBJECT (Calculus)
 Difficulty: 489

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	12.6	3.8	72.9	10.6	0.0	72.9	0.0	0.0	0.0	67.4	77.1
Austria	202	25.8	5.5	57.1	11.0	0.6	57.1	0.0	0.3	0.3	56.0	58.4
Canada	807	9.3	2.1	75.9	12.2	0.5	75.9	0.4	0.0	0.1	72.5	78.7
Cyprus	109	2.9	1.9	83.9	11.2	0.0	83.9	0.0	0.0	0.0	82.9	84.1
Czech Republic	272	23.1	2.9	63.1	9.8	1.1	63.1	0.0	0.0	1.1	68.2	56.2
Denmark	422	13.7	6.3	65.4	10.2	4.4	65.4	0.7	0.0	3.7	65.5	64.7
France	259	13.0	0.7	76.8	6.0	3.5	76.8	0.7	0.0	2.8	82.6	73.1
Germany	733	24.2	6.7	47.2	13.8	8.1	47.2	4.2	0.5	3.4	44.8	50.6
Greece	109	5.1	3.1	70.3	21.5	0.0	70.3	0.0	0.0	0.0	62.7	74.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	14.6	4.9	69.9	6.3	4.4	69.9	0.0	0.5	3.9	56.6	81.6
Italy	121	20.3	1.2	54.6	14.3	9.5	54.6	0.0	0.0	9.5	41.7	63.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	248	13.3	2.8	65.5	5.7	12.7	65.5	0.0	0.0	12.7	61.3	69.5
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	5.2	2.9	74.2	13.2	4.5	74.2	0.1	0.0	4.4	69.3	79.2
Slovenia	430	12.1	4.8	52.0	20.3	10.8	52.0	0.3	0.0	10.5	58.6	45.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	5.2	4.6	71.6	18.4	0.2	71.6	0.0	0.0	0.2	69.5	72.4
Switzerland	360	19.9	3.7	60.0	14.1	2.2	60.0	0.2	0.0	2.0	56.7	61.3
United States	759	29.9	4.5	56.2	9.4	0.1	56.2	0.0	0.0	0.1	60.7	52.3
INTERNATIONAL AVG	.	14.7	3.7	65.7	12.2	3.7	65.7	0.4	0.1	3.2	63.3	67.2

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

Item: K04 KEY: B
 LIMIT OF A FUNCTION (Calculus)
 Difficulty: 692

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	44.6	23.8	4.6	12.7	10.2	4.1	23.8	0.0	0.0	4.1	24.8	23.0
Austria	202	46.0	11.5	8.2	3.3	25.6	5.5	11.5	0.0	0.3	5.1	11.9	10.3
Canada	807	33.0	35.9	6.4	8.5	15.2	1.1	35.9	0.0	0.0	1.1	31.2	39.8
Cyprus	110	13.4	36.3	2.8	17.2	29.5	0.8	36.3	0.0	0.0	0.8	31.6	37.3
Czech Republic	272	40.4	24.7	4.2	7.9	12.6	10.2	24.7	0.7	0.0	9.5	18.5	33.0
Denmark	422	47.0	29.3	1.4	1.5	17.0	3.8	29.3	0.0	0.0	3.8	28.1	30.9
France	259	27.2	46.2	1.8	1.4	16.6	6.8	46.2	0.0	0.0	6.8	48.6	44.9
Germany	733	50.7	17.5	2.8	1.7	20.9	6.5	17.5	0.0	0.5	6.0	14.6	20.5
Greece	109	17.8	53.1	7.5	7.8	12.6	1.1	53.1	0.0	0.0	1.1	55.5	51.9
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	32.5	12.1	1.5	2.9	48.1	2.9	12.1	0.0	0.5	2.4	11.1	13.3
Italy	121	18.6	21.5	4.6	15.6	36.7	3.0	21.5	0.0	0.0	3.0	22.5	20.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	29.3	26.9	1.6	6.3	14.1	21.9	26.9	0.0	0.0	21.9	20.9	32.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	34.0	29.6	6.4	5.6	12.7	11.7	29.6	0.0	0.0	11.7	28.5	30.7
Slovenia	430	35.5	19.6	4.2	4.9	22.3	13.4	19.6	0.0	0.0	13.4	20.8	18.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	31.9	29.2	2.6	9.5	24.8	2.1	29.2	0.0	0.0	2.1	23.5	31.4
Switzerland	360	38.9	27.6	6.0	4.5	20.1	2.8	27.6	0.0	0.0	2.8	21.8	33.0
United States	759	31.9	26.3	9.1	8.4	19.8	4.7	26.3	0.0	0.0	4.7	24.9	27.4
INTERNATIONAL AVG	.	33.7	27.7	4.4	7.0	21.1	6.0	27.7	0.0	0.1	5.9	25.8	29.4

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

Item: K05 KEY: A
 DERIVATIVES (Calculus)
 Difficulty: 601

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	52.1	5.9	8.4	18.2	13.6	1.8	52.1	0.0	0.0	1.8	56.3	48.9
Austria	202	42.0	9.3	19.6	12.2	11.3	5.6	42.0	0.0	0.3	5.2	34.1	53.5
Canada	807	46.9	5.8	15.0	20.9	9.6	1.8	46.9	0.0	0.0	1.8	44.7	49.0
Cyprus	110	35.6	13.1	26.7	9.0	12.6	3.0	35.6	0.0	0.0	3.0	30.4	40.4
Czech Republic	272	38.7	9.0	12.6	24.2	4.5	11.0	38.7	0.4	0.0	10.6	32.3	47.3
Denmark	422	49.0	6.7	9.1	18.0	8.3	8.8	49.0	0.2	0.0	8.7	44.4	51.8
France	259	51.6	1.4	9.0	26.5	6.8	4.7	51.6	0.8	0.0	3.9	44.3	56.4
Germany	733	38.2	8.9	11.8	14.1	10.4	16.7	38.2	2.1	0.5	14.2	31.1	47.0
Greece	109	37.0	9.7	17.0	21.0	6.8	8.5	37.0	0.0	0.0	8.5	33.4	38.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	57.8	5.8	11.2	14.6	9.7	1.0	57.8	0.0	0.5	0.5	56.6	62.2
Italy	121	42.3	3.5	9.4	25.7	4.7	14.4	42.3	0.0	0.0	14.4	36.6	46.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	43.0	4.1	6.8	11.0	1.6	33.5	43.0	0.2	0.0	33.3	42.6	43.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	48.3	6.8	10.6	19.0	7.2	8.2	48.3	0.0	0.0	8.2	41.7	55.0
Slovenia	430	38.9	7.4	14.2	18.5	6.0	14.9	38.9	0.0	0.0	14.8	33.4	45.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	60.8	4.1	7.2	19.5	6.6	1.7	60.8	0.0	0.0	1.7	61.0	60.8
Switzerland	360	45.5	9.5	5.9	21.2	7.3	10.7	45.5	0.2	0.0	10.5	32.4	55.7
United States	759	46.6	6.5	14.6	20.2	9.2	2.9	46.6	0.2	0.0	2.7	45.4	47.5
INTERNATIONAL AVG	.	45.5	6.9	12.3	18.5	8.0	8.8	45.5	0.2	0.1	8.5	41.2	49.9

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

Item: K06 KEY: D
 SOLVING AN INTEGRAL (Calculus)
 Difficulty: 537

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	3.1	8.4	14.2	66.1	5.1	3.1	66.1	0.0	0.0	3.1	66.3	65.9
Austria	202	12.4	10.5	14.8	47.2	3.5	11.6	47.2	0.0	0.3	11.3	38.2	59.6
Canada	807	12.7	12.3	17.6	44.0	6.5	7.0	44.0	0.0	0.0	7.0	37.7	49.3
Cyprus	110	4.0	5.5	18.2	55.6	13.1	3.6	55.6	0.0	0.0	3.6	62.2	51.4
Czech Republic	272	9.0	8.5	15.9	42.3	5.6	18.8	42.3	6.2	0.0	12.6	37.7	48.6
Denmark	422	2.0	2.6	6.7	80.6	4.3	3.9	80.6	0.0	0.4	3.6	75.4	82.8
France	259	3.0	3.4	6.6	77.6	4.7	4.7	77.6	0.0	0.0	4.7	76.7	78.4
Germany	733	5.0	5.1	8.8	58.5	8.0	14.6	58.5	0.5	0.6	13.5	57.3	60.9
Greece	109	14.1	12.4	5.6	56.2	6.7	5.0	56.2	0.0	0.0	5.0	44.9	61.9
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	2.9	4.9	12.6	62.6	9.2	7.8	62.6	0.0	0.5	7.3	57.6	70.4
Italy	121	8.7	6.0	5.8	56.7	3.2	19.6	56.7	1.1	0.0	18.5	65.1	50.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	3.8	3.8	7.4	56.4	4.4	24.1	56.4	0.0	0.0	24.1	53.3	59.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	3.6	2.6	8.6	71.5	3.3	10.5	71.5	0.0	0.0	10.5	68.6	74.4
Slovenia	430	6.4	6.8	10.8	38.5	3.6	33.9	38.5	0.3	0.0	33.6	27.7	50.1
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	3.7	7.5	5.0	76.3	5.2	2.3	76.3	0.0	0.0	2.3	78.5	75.4
Switzerland	360	5.5	8.5	10.3	58.4	6.2	11.1	58.4	0.0	0.0	11.1	51.5	64.9
United States	759	11.0	12.4	16.4	45.8	6.5	7.8	45.8	0.0	0.0	7.8	36.8	53.7
INTERNATIONAL AVG	.	6.5	7.1	10.9	58.5	5.8	11.1	58.5	0.5	0.1	10.6	55.0	62.2

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

Item: K07 KEY: B
 VERTICES OF RIGHT ANGLE TRIANGLE (Geometry)
 Difficulty: 547

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	21.1	45.6	5.6	26.4	1.3	45.6	0.0	0.0	1.3	53.8	39.3
Austria	202	5.2	51.9	3.4	36.9	2.5	51.9	0.0	0.3	2.2	49.8	57.4
Canada	807	13.9	51.9	1.9	31.9	0.5	51.9	0.0	0.0	0.5	53.7	50.3
Cyprus	110	12.0	51.5	5.5	30.1	0.9	51.5	0.0	0.0	0.9	47.5	54.3
Czech Republic	272	10.9	47.8	3.3	35.8	2.2	47.8	0.8	0.0	1.4	42.4	55.0
Denmark	422	4.5	70.6	1.1	22.8	1.0	70.6	0.0	0.4	0.6	70.1	69.5
France	259	8.1	63.7	2.0	26.0	0.2	63.7	0.0	0.0	0.2	63.9	63.5
Germany	733	8.2	51.2	2.4	33.7	4.5	51.2	0.4	0.6	3.5	50.7	51.7
Greece	109	20.4	36.2	1.5	40.5	1.5	36.2	0.0	0.0	1.5	29.6	39.5
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	8.7	60.2	1.0	26.7	3.4	60.2	0.5	1.0	1.9	53.5	67.3
Italy	121	6.4	54.5	2.8	27.8	8.5	54.5	0.5	0.0	8.0	53.2	55.5
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	6.1	70.0	0.6	20.7	2.6	70.0	0.0	0.0	2.6	70.0	70.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	7.5	71.1	1.3	19.1	0.9	71.1	0.0	0.0	0.9	69.2	73.1
Slovenia	430	12.5	53.8	3.5	27.9	2.3	53.8	0.3	0.0	2.0	56.4	51.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	3.3	59.8	3.1	33.1	0.8	59.8	0.0	0.0	0.8	60.5	59.5
Switzerland	360	6.4	61.9	5.0	24.7	2.0	61.9	0.0	0.0	2.0	63.6	59.5
United States	759	15.0	46.6	2.7	34.5	1.1	46.6	0.2	0.0	0.9	38.9	53.4
INTERNATIONAL AVG	.	10.0	55.8	2.8	29.3	2.1	55.8	0.2	0.1	1.8	54.5	57.1

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

Item: K08 KEY: D
 CONIC REPRESENTED BY AN EQUATION (Geometry)
 Difficulty: 690

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	35.6	37.0	12.3	13.7	1.3	13.7	0.0	0.0	1.3	17.0	11.2
Austria	202	30.4	22.5	12.1	30.4	4.6	30.4	0.0	0.3	4.2	25.7	35.8
Canada	807	18.8	32.3	9.7	38.8	0.5	38.8	0.5	0.0	0.0	38.8	38.7
Cyprus	110	25.6	16.3	6.2	51.2	0.7	51.2	0.0	0.0	0.7	43.0	56.8
Czech Republic	272	25.1	25.3	14.9	31.7	3.0	31.7	0.2	0.0	2.7	27.0	38.1
Denmark	422	41.1	27.8	8.5	14.2	8.4	14.2	0.2	1.0	7.2	12.1	15.3
France	259	26.7	24.3	8.0	34.4	6.5	34.4	0.0	0.0	6.5	39.2	31.1
Germany	733	31.9	22.5	19.2	14.0	12.4	14.0	0.9	0.6	10.9	14.1	14.2
Greece	109	25.5	11.0	2.6	60.9	0.0	60.9	0.0	0.0	0.0	64.6	59.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	21.4	16.5	3.9	55.3	2.9	55.3	0.0	1.5	1.5	53.5	58.2
Italy	121	31.2	29.0	8.5	29.1	2.1	29.1	0.7	1.0	0.4	38.8	22.2
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	49.5	16.0	14.2	10.2	10.0	10.2	0.0	0.0	10.0	13.7	7.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	30.8	37.5	10.1	15.3	6.4	15.3	0.3	0.0	6.0	14.9	15.6
Slovenia	430	16.7	30.7	10.3	39.2	3.1	39.2	0.2	0.0	2.9	36.4	41.5
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	10.1	33.1	33.7	18.8	4.2	18.8	0.0	0.0	4.2	17.4	19.4
Switzerland	360	29.1	26.6	17.7	19.8	6.9	19.8	0.0	0.0	6.9	12.5	23.1
United States	759	24.5	23.8	25.6	25.1	1.0	25.1	0.4	0.0	0.7	24.0	26.0
INTERNATIONAL AVG	.	27.9	25.4	12.8	29.5	4.4	29.5	0.2	0.3	3.9	29.0	30.2

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

Item: K09 KEY: C
 DISTANCE BETWEEN INTERCEPTS ON A PLANE (Geometry)
 Difficulty: 613

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	13.1	8.4	51.6	19.8	7.0	51.6	0.0	0.0	7.0	50.9	52.2
Austria	202	14.8	18.0	43.9	7.5	15.7	43.9	0.0	0.3	15.4	48.2	40.7
Canada	807	21.8	10.1	49.4	14.1	4.6	49.4	0.7	0.0	4.0	43.6	54.5
Cyprus	110	14.9	7.2	54.0	16.4	7.5	54.0	0.0	0.0	7.5	45.5	60.1
Czech Republic	271	13.5	13.9	38.3	11.5	22.7	38.3	4.1	0.0	18.6	27.3	53.1
Denmark	422	12.2	5.4	47.1	10.8	24.5	47.1	0.0	1.0	23.5	45.2	47.8
France	259	13.8	8.0	45.2	14.2	18.8	45.2	0.0	0.0	18.8	46.3	44.3
Germany	733	9.8	11.7	40.9	10.3	27.3	40.9	3.2	0.6	23.5	41.2	41.5
Greece	109	19.7	17.9	36.2	9.6	16.6	36.2	0.0	0.0	16.6	29.2	39.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	20.4	5.3	40.8	18.0	15.5	40.8	0.0	1.5	14.1	36.4	48.0
Italy	121	14.6	10.3	17.1	16.1	42.0	17.1	1.0	1.0	39.9	7.3	24.0
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	.	.	.	.	.	.	.	.	.	.	.	.
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	7.3	11.2	53.5	7.7	20.2	53.5	0.0	0.5	19.7	47.9	59.3
Slovenia	430	11.3	12.0	28.4	11.2	37.1	28.4	0.4	0.0	36.7	23.3	33.3
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	22.2	12.7	43.0	12.5	9.7	43.0	0.0	0.0	9.7	24.9	50.1
Switzerland	360	12.1	6.2	51.1	9.5	21.1	51.1	0.0	0.0	21.1	42.9	58.3
United States	759	14.4	17.5	40.4	16.3	11.4	40.4	0.0	0.0	11.4	28.6	50.7
INTERNATIONAL AVG	.	14.7	11.0	42.6	12.8	18.9	42.6	0.6	0.3	18.0	36.8	47.3

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

Item: K10 KEY: C
 ANGLE INSCRIBED BY FIGURES INSIDE A SEMICIRCLE (Geometry)
 Difficulty: 741

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	47.9	28.2	16.7	3.3	3.9	16.7	0.0	0.0	3.9	13.4	19.2
Austria	202	36.8	35.4	19.2	3.9	4.7	19.2	0.0	0.8	3.8	19.1	18.5
Canada	807	43.2	38.7	15.1	2.1	0.8	15.1	0.3	0.0	0.6	18.5	12.3
Cyprus	110	27.1	43.9	19.9	4.5	4.7	19.9	0.0	0.0	4.7	23.1	18.4
Czech Republic	272	25.7	36.8	33.3	1.7	2.6	33.3	0.7	0.0	1.9	32.9	33.8
Denmark	422	45.4	28.5	18.2	2.2	5.7	18.2	1.2	1.0	3.5	15.0	20.2
France	259	37.4	20.5	34.7	2.6	4.9	34.7	0.2	0.0	4.7	32.7	36.1
Germany	733	41.5	26.4	23.9	2.1	6.2	23.9	1.2	0.7	4.3	22.9	25.4
Greece	109	28.0	48.9	12.5	2.1	8.4	12.5	0.0	0.9	7.6	13.3	12.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	31.6	39.8	20.9	2.9	4.9	20.9	0.0	2.4	2.4	22.2	21.4
Italy	121	36.7	28.5	19.5	3.3	11.9	19.5	0.0	5.3	6.6	20.4	18.9
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	49.7	25.6	15.6	0.6	8.4	15.6	0.0	0.0	8.4	13.2	17.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	445	32.6	35.5	21.9	2.2	7.7	21.9	0.0	0.5	7.3	18.1	25.9
Slovenia	430	43.9	25.8	22.5	0.4	7.3	22.5	0.2	0.4	6.8	26.0	19.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	41.5	23.8	25.5	7.1	2.0	25.5	0.0	0.0	2.0	20.0	27.7
Switzerland	360	34.9	25.9	33.7	1.1	4.4	33.7	0.1	0.1	4.2	33.7	34.2
United States	759	44.7	43.6	8.6	1.4	1.7	8.6	0.0	0.0	1.7	8.5	8.7
INTERNATIONAL AVG	.	38.2	32.7	21.3	2.6	5.3	21.3	0.2	0.7	4.4	20.8	21.8

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

Item: K11 KEY: D
 PROBABILITY OF NUMBER ON A CARD (Probability & Statistics)
 Difficulty: 578

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	2.5	2.2	6.4	76.1	11.8	1.1	76.1	0.0	0.0	1.1	76.3	75.9
Austria	202	16.1	12.1	11.6	36.6	19.1	4.5	36.6	0.0	0.8	3.7	37.9	32.7
Canada	807	5.3	6.1	9.8	60.9	16.2	1.7	60.9	0.1	0.0	1.6	54.9	66.0
Cyprus	110	10.6	15.4	11.5	35.1	24.5	2.9	35.1	1.1	0.0	1.8	28.6	39.1
Czech Republic	272	6.9	15.5	8.4	42.9	19.4	6.9	42.9	1.9	0.0	5.1	33.4	55.7
Denmark	422	4.1	2.5	4.2	66.9	20.1	2.2	66.9	0.0	1.0	1.3	61.8	71.8
France	259	3.9	6.8	3.1	61.9	22.3	2.0	61.9	0.2	0.0	1.9	54.6	66.3
Germany	733	10.4	11.4	7.3	46.0	16.0	8.9	46.0	1.7	0.8	6.4	42.7	50.2
Greece	109	16.3	22.1	9.2	29.1	15.9	7.5	29.1	0.0	0.9	6.6	20.1	33.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	5.3	7.8	6.8	56.3	14.1	9.7	56.3	0.0	2.4	7.3	51.5	63.3
Italy	121	8.9	6.6	15.0	33.7	18.0	17.8	33.7	0.2	5.3	12.2	23.8	40.6
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	5.1	11.8	3.4	48.9	15.2	15.5	48.9	0.0	0.0	15.5	40.2	57.1
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	446	12.3	10.5	13.8	35.4	15.7	12.3	35.4	0.0	0.5	11.8	27.2	43.7
Slovenia	430	9.1	11.2	9.8	39.9	19.7	10.3	39.9	1.0	0.4	8.9	38.5	41.4
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	5.7	2.8	4.1	64.4	21.6	1.4	64.4	0.3	0.5	0.6	69.6	62.4
Switzerland	360	5.2	6.4	3.8	62.5	16.2	5.9	62.5	0.0	0.1	5.8	56.1	68.4
United States	759	6.6	9.5	7.8	62.4	13.3	0.3	62.4	0.0	0.0	0.3	54.2	69.6
INTERNATIONAL AVG	.	7.9	9.4	8.0	50.5	17.6	6.5	50.5	0.4	0.7	5.4	45.4	55.2

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

Item: K12
 TRANSLATION OF COORDINATES (Geometry)
 Difficulty: 570

COUNTRY	N	10	11	12	19	70	71	72	73	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
														REACH		% Right	% Right
														ED			
Australia	174	4.2	8.1	19.8	2.3	3.8	0.5	0.9	4.0	32.3	1.2	23.0	34.3	0.0	23.0	38.9	30.9
Austria	202	32.0	11.4	6.5	0.0	7.2	1.7	1.8	7.2	5.7	7.1	19.4	49.9	0.8	18.6	39.5	64.4
Canada	807	12.7	13.1	29.4	2.2	5.0	1.2	0.4	4.0	17.1	2.8	12.2	57.4	0.0	12.2	57.1	57.7
Cyprus	110	9.9	5.6	8.2	0.0	12.0	0.0	2.1	6.2	18.8	1.5	35.6	23.7	0.0	35.6	13.3	28.2
Czech Republic	272	27.4	13.5	14.4	0.0	20.7	2.7	0.6	4.4	5.2	2.8	8.2	55.4	0.5	7.6	51.9	60.0
Denmark	422	46.0	10.7	16.4	0.6	7.8	0.0	1.1	0.6	4.5	0.2	12.0	73.7	1.4	10.7	76.7	73.5
France	259	20.7	5.0	48.3	0.9	4.8	2.2	2.0	0.7	7.2	1.6	6.7	74.9	0.0	6.7	68.1	79.0
Germany	732	29.0	8.2	23.1	1.0	4.3	1.1	0.4	1.5	10.6	8.1	12.8	61.3	1.4	11.4	60.0	63.1
Greece	109	14.1	21.3	5.8	1.7	11.1	0.0	0.9	0.0	4.4	3.4	37.3	42.9	0.9	36.4	28.8	50.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	32.0	9.2	12.1	1.5	3.9	1.5	1.5	5.8	12.1	1.5	18.9	54.9	2.4	16.5	56.6	55.1
Italy	121	33.5	0.2	16.4	1.1	13.8	0.3	0.0	1.2	11.4	4.1	17.9	51.2	5.3	12.6	50.9	51.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	28.0	10.2	14.5	0.2	3.8	0.0	0.0	1.8	3.6	7.0	31.0	52.9	0.5	30.4	48.0	57.5
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	445	32.3	3.2	14.5	9.8	15.7	1.0	0.7	0.5	5.3	1.8	15.2	59.8	0.7	14.5	53.4	66.3
Slovenia	430	35.8	0.0	0.8	0.2	0.8	0.0	0.2	9.4	31.6	6.7	14.5	36.8	0.4	14.1	36.8	36.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	20.8	12.6	3.4	1.8	10.7	0.0	0.0	0.8	7.4	1.5	41.0	38.6	0.5	40.5	40.6	37.8
Switzerland	360	30.7	11.9	31.2	2.1	4.0	1.7	1.0	2.1	8.1	0.9	6.1	76.0	0.1	5.9	73.7	77.4
United States	759	15.9	5.3	20.6	0.5	14.1	1.1	0.8	2.8	17.8	3.0	18.1	42.3	0.0	18.1	37.5	46.5
INTERNATIONAL AVG	.	25.0	8.8	16.8	1.5	8.4	0.9	0.8	3.1	12.0	3.2	19.4	52.1	0.9	18.5	48.9	55.0

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: K13
 GROWTH OF BACTERIA (Numbers, Equations and Functions)
 Difficulty: 710

COUNTRY	N	10	11	12	13	19	70	71	72	73	79	90	99	V1	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	174	0.6	6.1	4.4	22.8	0.0	1.4	6.5	2.6	11.4	35.8	3.0	5.3	33.9	0.5	4.8	39.8	29.4
Austria	202	11.9	6.2	4.7	1.9	1.1	24.6	1.6	0.4	4.6	24.8	6.5	11.8	25.8	1.9	9.9	23.0	30.2
Canada	807	2.2	12.6	13.1	4.9	2.4	4.4	3.4	5.4	2.0	39.7	1.4	8.4	35.2	0.3	8.1	25.9	43.2
Cyprus	110	0.0	8.4	4.9	1.7	0.0	11.8	2.7	1.6	0.0	45.4	3.6	19.9	15.1	2.9	17.0	6.5	21.5
Czech Republic	272	7.2	11.1	6.0	0.0	0.0	25.1	3.6	2.5	0.7	27.6	8.1	8.2	24.2	0.9	7.3	12.4	40.2
Denmark	422	21.2	8.5	10.0	2.9	1.4	12.5	1.2	0.9	2.8	17.7	2.0	18.8	44.1	2.1	16.7	34.2	49.9
France	258	9.6	9.1	2.1	1.8	2.0	7.3	1.7	0.5	3.3	31.9	2.0	28.5	24.7	0.3	28.2	21.5	26.8
Germany	732	14.8	11.4	4.5	2.7	1.4	14.5	6.1	2.3	2.2	22.6	7.1	10.4	34.9	2.1	8.3	28.4	43.2
Greece	109	1.8	0.0	1.9	0.6	4.0	32.8	4.8	3.6	2.4	12.2	6.6	29.3	8.4	2.1	27.2	9.4	7.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	206	15.5	19.9	10.7	8.7	2.4	0.5	6.8	1.0	4.9	16.5	0.0	13.1	57.3	2.9	10.2	55.6	58.2
Italy	121	17.3	3.0	0.0	0.2	0.7	23.7	0.5	0.0	1.9	34.9	2.3	15.5	21.2	6.5	9.0	21.6	21.0
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	249	7.4	6.9	3.7	0.2	2.2	19.7	4.3	0.0	0.0	31.2	4.7	19.6	20.5	1.9	17.7	14.4	26.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	445	6.6	6.7	7.1	1.9	0.7	14.3	3.4	0.8	0.3	32.9	2.6	22.6	23.1	1.2	21.4	20.1	26.1
Slovenia	430	6.5	9.6	3.9	0.0	0.3	1.4	0.2	0.0	0.0	60.2	6.2	11.8	20.3	1.0	10.8	14.6	25.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	253	10.5	12.7	10.4	15.8	1.7	8.9	0.5	0.4	3.9	19.8	1.7	13.6	51.2	1.7	11.8	46.6	53.0
Switzerland	360	9.7	11.2	2.9	1.9	0.5	9.5	4.1	1.3	4.2	38.7	4.6	11.3	26.3	0.2	11.1	18.8	29.7
United States	759	3.5	6.3	3.0	7.1	4.5	11.7	4.6	0.5	5.8	48.9	0.9	3.3	24.4	0.4	2.9	18.1	29.9
INTERNATIONAL AVG	.	8.6	8.8	5.5	4.4	1.5	13.2	3.3	1.4	3.0	31.8	3.7	14.8	28.9	1.7	13.1	24.2	33.1

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: K14
 LENGTH OF STRING AROUND ROD (Geometry)
 Difficulty: 752

COUNTRY	N	20	21	22	29	10	11	19	70	71	72	73	74	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																			REACH			OMIT	% Right	% Right
																			ED				
Australia	174	4.0	5.3	1.8	2.7	0.7	0.7	0.0	3.1	19.5	5.8	1.1	1.7	38.6	1.9	13.0	15.3	13.9	0.5	12.6	13.2	14.4	
Austria	202	5.5	1.6	1.0	1.0	1.4	0.0	0.8	11.8	3.1	4.2	0.0	0.7	19.4	12.4	37.1	11.2	9.1	2.1	35.0	3.4	16.7	
Canada	807	9.3	0.4	1.1	1.4	0.4	0.2	0.1	0.6	17.7	11.5	0.6	0.4	41.8	4.1	10.3	12.9	12.2	0.3	10.0	6.7	16.8	
Cyprus	110	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.9	8.2	7.9	1.6	0.0	28.4	2.6	48.5	2.0	0.0	2.9	45.6	0.0	0.0	
Czech Republic	272	6.3	1.2	0.8	0.0	1.5	0.0	2.9	5.7	8.7	6.3	4.0	1.3	14.4	9.6	37.1	12.7	8.3	1.4	35.7	3.0	15.4	
Denmark	422	8.2	1.0	2.0	0.1	0.4	0.4	1.6	2.2	2.7	10.2	0.1	0.5	18.6	0.4	51.4	13.8	11.4	2.8	48.6	6.8	14.5	
France	258	2.7	1.4	0.0	0.0	0.0	1.3	0.5	1.5	8.9	2.5	2.4	0.0	12.4	2.7	63.7	5.9	4.1	2.7	61.0	1.7	5.6	
Germany	732	4.2	0.3	3.0	0.4	0.8	0.0	0.0	1.5	10.7	7.9	2.3	0.4	22.6	17.5	28.5	8.6	7.9	3.3	25.1	2.1	15.1	
Greece	109	0.6	0.9	0.8	2.7	0.9	0.0	0.0	8.8	0.6	0.0	12.5	0.0	0.9	6.7	64.8	5.9	5.0	3.0	61.8	3.3	5.8	
Hungary
Iceland
Israel	206	5.8	0.0	0.5	0.5	1.0	0.0	2.9	0.0	14.1	6.8	8.7	16.5	11.2	1.0	31.1	10.7	6.8	2.9	28.2	6.1	8.2	
Italy	121	1.8	0.0	1.9	2.4	0.0	0.0	3.2	7.7	7.6	7.1	2.5	0.0	16.3	1.9	47.6	9.3	6.1	6.5	41.1	0.0	10.4	
Latvia (LSS)
Lithuania	249	16.7	0.6	0.5	0.0	0.0	0.0	0.8	2.5	2.9	4.3	0.0	0.0	11.4	16.6	43.7	18.6	17.8	3.9	39.8	6.9	27.9	
Netherlands
New Zealand
Norway
Russian Federation	435	10.5	0.3	1.9	0.0	1.7	0.2	0.2	7.7	3.6	4.6	4.6	1.4	15.0	2.1	46.2	14.8	12.7	3.1	43.1	9.4	16.1	
Slovenia	430	4.2	0.2	0.0	0.2	0.7	0.0	0.0	0.0	8.7	6.3	1.0	0.5	28.7	12.8	36.6	5.4	4.7	2.1	34.5	2.5	7.0	
South Africa
Sweden	253	14.5	1.5	7.5	0.0	0.2	0.6	0.2	1.3	6.8	21.0	2.0	0.8	20.2	2.4	20.9	24.6	23.6	1.7	19.1	16.6	26.3	
Switzerland	360	13.3	2.5	1.4	0.0	0.9	0.4	0.2	0.9	6.4	13.0	4.0	0.2	26.6	9.8	20.5	18.6	17.2	0.3	20.2	4.2	26.9	
United States	759	3.2	0.0	0.6	0.0	0.2	0.2	0.1	2.3	12.2	9.7	0.3	0.1	56.2	3.0	11.9	4.3	3.8	0.4	11.5	1.0	6.2	
INTERNATIONAL AVG	.	6.5	1.0	1.5	0.7	0.7	0.2	0.8	3.4	8.4	7.6	2.8	1.4	22.5	6.3	36.0	11.4	9.7	2.3	33.7	5.1	13.7	

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: K15
 COMPLEX NUMBER SOLUTION OF EQUATION (Numbers, Equations and Functions)
 Difficulty: 696

COUNTRY	N	20	21	29	10	11	19	70	71	72	73	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
																	REACH		% Right	% Right	
																	ED				
Australia	174	0.0	18.4	1.0	1.6	0.0	1.3	0.0	0.0	0.6	2.4	8.3	1.6	64.7	22.3	19.4	1.3	63.4	12.0	25.1	
Austria	202	0.2	0.4	0.0	1.6	0.0	0.0	1.1	0.3	0.0	0.0	6.5	19.3	70.6	2.2	0.6	7.6	63.1	0.0	1.4	
Canada	807	0.8	2.7	0.8	1.3	0.0	1.5	1.3	0.6	0.2	0.5	20.4	12.2	57.8	7.0	4.2	0.5	57.3	4.9	3.7	
Cyprus	110	1.9	17.7	0.0	8.0	0.0	0.0	0.0	0.6	0.8	6.2	5.4	59.4	27.5	19.5	4.0	55.4	14.6	21.9		
Czech Republic	272	2.1	11.2	0.0	4.9	0.8	0.7	0.8	0.7	1.7	0.0	5.7	4.0	67.3	19.7	13.3	4.2	63.1	6.9	21.9	
Denmark	422	0.0	1.8	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	4.5	0.7	92.2	1.8	1.8	4.3	87.9	2.3	1.7	
France	259	7.8	52.2	0.3	10.0	1.0	0.6	0.4	1.0	0.9	0.0	4.9	0.4	20.4	72.0	60.3	3.5	16.9	64.7	57.8	
Germany	732	0.1	0.0	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0	6.5	43.1	49.8	0.3	0.1	7.3	42.5	0.2	0.0	
Greece	109	1.3	46.5	0.0	5.2	0.0	1.1	4.8	0.6	0.0	0.0	0.8	0.7	39.0	54.1	47.9	6.3	32.7	57.2	43.2	
Hungary
Iceland
Israel	206	1.5	41.7	0.0	17.0	0.0	2.4	0.0	0.0	0.5	0.5	3.4	0.5	32.5	62.6	43.2	2.9	29.6	39.4	50.0	
Italy	121	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	2.1	3.0	93.6	1.3	1.1	13.4	80.2	0.0	1.9	
Latvia (LSS)
Lithuania	249	6.2	10.4	0.0	0.2	0.0	0.5	1.6	0.9	0.0	0.0	2.7	4.9	72.5	17.4	16.6	9.7	62.7	10.8	22.1	
Netherlands
New Zealand
Norway
Russian Federation	435	3.8	27.1	0.1	5.0	0.4	1.9	3.7	0.6	0.0	0.0	4.4	0.9	52.1	38.3	31.0	7.0	45.1	28.0	34.1	
Slovenia	430	1.8	13.2	0.4	0.1	0.0	0.1	0.0	0.9	0.0	0.0	15.5	2.2	65.8	15.6	15.4	6.6	59.3	9.4	21.5	
South Africa
Sweden	253	5.1	18.5	1.0	6.3	0.4	0.3	4.3	1.0	0.4	0.0	9.8	2.9	50.0	31.6	24.6	3.4	46.6	20.5	26.3	
Switzerland	360	2.2	8.7	1.3	7.0	0.4	0.8	1.8	0.4	0.0	0.8	4.4	22.2	49.8	20.5	12.3	1.6	48.2	8.4	15.2	
United States	759	0.2	1.2	0.8	1.3	0.4	0.3	2.6	0.1	0.0	0.1	19.0	11.6	62.5	4.1	2.1	1.8	60.7	0.8	3.3	
INTERNATIONAL AVG	.	2.1	16.0	0.3	4.1	0.2	0.7	1.4	0.4	0.3	0.3	7.4	8.0	58.8	23.4	18.4	5.0	53.8	16.5	20.6	

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: K16
 CALCULATION OF HEIGHT OF A GLACIER (Numbers, Equations and Functions)
 Difficulty: 631

COUNTRY	N	30	31	39	20	21	22	23	24	29	10	11	19	70	79	90	99	V1	V2	V3	NOT	1.GIRL	2.BOY		
																					REACH			ED	OMIT	% Right	% Right
Australia	174	38.7	0.4	0.0	15.7	2.6	0.8	7.1	0.0	0.0	2.5	10.7	3.6	1.5	8.3	0.6	7.6	82.0	65.3	39.1	2.5	5.1	35.9	41.5	
Austria	202	17.6	0.0	0.3	20.8	3.0	0.4	5.8	0.3	1.8	3.7	5.3	2.2	0.8	11.9	7.7	18.5	61.1	50.0	17.9	10.2	8.3	12.3	27.4	
Canada	807	36.0	0.3	8.8	21.3	1.9	0.4	1.5	0.2	2.5	3.1	8.2	0.9	1.1	8.6	1.0	4.2	85.1	72.9	45.1	0.6	3.6	35.9	52.9	
Cyprus	110	12.9	0.0	0.0	20.8	7.5	0.0	5.3	0.0	0.9	2.0	5.1	3.4	4.7	6.8	0.9	29.8	57.8	47.4	12.9	5.4	24.4	4.9	17.1	
Czech Republic	272	35.7	0.4	2.8	9.3	7.4	0.5	3.0	0.0	0.8	3.3	10.7	3.5	0.7	0.7	2.7	18.6	77.3	59.8	38.8	7.8	10.8	29.3	51.6	
Denmark	422	41.4	0.1	0.3	18.4	1.6	0.9	6.5	0.1	2.0	5.7	5.2	2.0	1.9	3.4	1.0	9.6	84.2	71.3	41.8	4.4	5.2	39.6	41.7	
France	259	40.2	2.5	0.0	22.2	4.5	3.2	3.5	1.2	0.3	2.5	1.5	1.9	0.6	2.4	0.7	12.9	83.5	77.6	42.7	3.7	9.1	40.0	44.6	
Germany	733	30.7	0.9	0.5	2.8	1.5	0.2	1.0	0.0	0.5	4.7	18.8	2.5	1.5	8.6	9.9	15.8	64.1	38.1	32.0	9.4	6.4	24.7	42.0	
Greece	109	26.5	2.9	2.7	2.8	1.2	0.0	0.0	0.0	1.1	0.7	1.8	0.7	5.6	0.0	6.2	47.8	40.3	37.2	32.1	9.9	38.0	21.2	37.6	
Hungary
Iceland
Israel	206	17.5	0.5	0.5	33.5	3.9	0.0	4.4	1.5	0.0	3.9	3.4	5.8	3.9	3.9	0.5	17.0	74.8	61.7	18.4	2.9	14.1	9.1	28.6	
Italy	121	17.3	2.6	1.2	3.6	15.0	0.0	6.6	0.0	0.0	1.9	2.4	2.4	2.0	13.4	2.0	29.7	52.9	46.3	21.0	14.4	15.3	11.3	27.9	
Latvia (LSS)
Lithuania	249	26.1	0.0	0.0	12.4	26.1	0.0	2.5	0.0	0.0	0.0	3.9	0.7	2.2	2.4	1.5	22.3	71.6	67.0	26.1	10.8	11.6	14.1	37.2	
Netherlands
New Zealand
Norway
Russian Federation	445	24.9	0.0	0.9	6.2	20.3	0.5	2.4	0.0	1.0	1.6	5.0	1.8	3.2	2.0	0.2	29.9	64.6	56.2	25.8	9.6	20.3	17.8	34.1	
Slovenia	430	22.8	1.2	0.0	15.9	2.7	0.0	0.0	0.1	0.1	15.6	0.4	0.2	0.0	11.0	8.7	21.1	59.2	42.9	24.1	10.1	11.0	19.4	28.6	
South Africa
Sweden	253	54.4	3.2	10.8	5.1	0.4	0.0	2.3	0.0	0.8	10.1	2.3	0.6	0.4	0.7	0.4	8.4	90.0	77.1	68.4	5.5	2.9	65.8	69.5	
Switzerland	360	38.8	0.6	0.3	21.1	1.7	3.0	2.1	0.0	0.2	6.1	6.6	2.0	2.5	4.0	2.0	9.0	82.5	67.8	39.7	2.4	6.6	35.5	43.5	
United States	759	24.7	0.2	2.4	11.4	3.2	0.0	4.2	0.1	2.8	2.2	6.2	11.2	2.7	19.1	1.4	8.2	68.6	49.0	27.3	2.0	6.2	16.0	37.2	
INTERNATIONAL AVG	.	29.8	0.9	1.8	14.3	6.1	0.6	3.4	0.2	0.9	4.1	5.7	2.7	2.1	6.3	2.8	18.3	70.6	58.1	32.5	6.6	11.7	25.5	39.0	

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: K17
 EQUATION OF A FUNCTION GIVEN THE DERIVATIVE AND POINT (Calculus)
 Difficulty: 642

COUNTRY	N	30	39	20	21	22	23	29	10	11	19	70	71	79	90	99	V1	V2	V3	NOT	1.GIRL	2.BOY		
																				REACH			ED	OMIT	% Right	% Right
Australia	174	49.9	0.0	0.0	3.8	0.0	3.7	2.6	12.6	0.0	0.0	4.3	2.1	5.5	2.5	13.2	72.4	59.9	49.9	2.5	10.7	45.6	53.2	
Austria	202	13.8	0.0	0.7	1.8	0.0	0.4	1.1	1.6	0.0	16.1	6.3	4.0	4.1	17.5	32.6	35.5	17.8	13.8	10.2	22.4	9.9	20.6	
Canada	807	27.7	0.7	0.2	2.4	0.4	0.9	1.1	1.8	0.2	5.9	8.9	0.8	33.5	2.1	13.3	41.4	33.4	28.4	0.6	12.7	25.1	31.0	
Cyprus	110	31.5	2.5	0.0	6.7	0.0	0.9	2.1	0.0	0.9	2.8	5.5	0.0	11.7	1.9	33.3	47.5	43.8	34.1	6.0	27.3	31.2	33.7	
Czech Republic	272	10.5	0.0	0.9	1.1	0.0	0.3	0.3	0.0	0.6	0.8	8.2	2.7	9.0	22.2	43.5	14.4	13.0	10.5	7.8	35.7	4.3	18.9	
Denmark	422	47.5	0.0	0.3	4.5	0.0	1.1	1.7	2.6	0.0	0.5	6.6	2.2	5.5	1.3	26.2	58.3	55.2	47.5	4.5	21.8	37.5	54.4	
France	259	55.0	0.3	1.6	1.4	0.0	0.3	1.2	2.5	0.2	1.6	6.4	1.9	6.3	0.2	21.0	64.2	59.9	55.3	4.9	16.1	52.2	57.1	
Germany	731	21.2	0.4	1.1	1.2	0.0	0.1	0.2	2.7	0.8	0.7	14.0	4.1	11.7	15.3	26.5	28.4	24.3	21.6	10.2	16.3	19.6	24.8	
Greece	109	41.3	0.0	0.6	0.0	0.0	0.0	1.1	2.7	0.0	0.0	5.5	0.0	0.0	3.5	45.2	45.7	43.1	41.3	14.8	30.4	39.0	42.5	
Hungary
Iceland
Israel	206	55.8	0.0	1.5	2.9	0.0	1.0	0.0	1.0	0.0	1.5	8.3	1.9	9.7	0.5	16.0	63.6	61.2	55.8	3.9	12.1	52.5	61.2	
Italy	121	15.7	0.2	0.4	1.5	0.0	0.0	2.3	2.4	1.1	3.8	7.3	1.9	7.0	2.0	54.7	27.3	20.0	15.9	14.4	40.3	17.7	14.7	
Latvia (LSS)
Lithuania	249	13.3	0.0	0.0	0.8	0.0	0.0	0.3	1.8	0.0	0.0	8.5	2.7	3.8	10.3	58.5	16.2	14.4	13.3	11.9	46.5	8.2	18.1	
Netherlands
New Zealand
Norway
Russian Federation	445	26.7	0.1	0.6	3.9	0.5	0.1	0.4	1.4	0.2	0.1	9.7	1.8	8.7	1.1	44.8	34.0	32.4	26.9	11.0	33.8	17.9	36.1	
Slovenia	430	13.5	0.0	0.0	1.4	0.0	1.6	1.0	0.8	0.0	0.1	22.5	0.1	17.4	12.7	28.9	18.3	17.5	13.5	10.6	18.3	8.0	19.1	
South Africa
Sweden	253	36.7	0.0	0.0	1.7	0.3	0.6	3.2	1.9	0.0	0.0	6.9	2.1	12.0	2.7	31.8	44.4	42.5	36.7	6.7	25.1	34.9	37.4	
Switzerland	360	30.1	0.3	0.3	2.7	0.3	0.4	1.0	1.2	0.5	1.5	10.5	4.1	21.7	6.0	19.4	38.3	35.1	30.4	2.7	16.7	21.5	37.7	
United States	759	17.7	0.2	0.0	0.5	0.2	0.2	0.4	2.8	0.1	0.4	8.1	1.7	36.8	3.3	27.7	22.4	19.1	17.8	2.4	25.3	16.5	19.1	
INTERNATIONAL AVG	.	29.9	0.3	0.5	2.3	0.1	0.7	1.2	2.3	0.3	2.1	8.7	2.0	12.0	6.2	31.6	39.6	34.9	30.2	7.4	24.2	26.0	34.1	

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: K18
 GEOMETRIC PROOF OF ISOSCELES TRIANGLE (Geometry)
 Difficulty: 626

COUNTRY	N	20	21	29	10	11	19	70	71	72	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																REACH			% Right	% Right
															ED	OMIT				
Australia	174	37.5	2.6	0.7	15.3	2.5	1.4	12.3	1.9	2.3	14.0	1.8	7.5	60.0	40.8	3.6	3.9	45.3	37.3	
Austria	202	16.1	0.0	1.4	3.0	0.4	1.9	5.4	12.3	1.2	4.0	10.1	44.1	22.9	17.5	21.5	22.5	17.6	18.7	
Canada	807	33.1	0.6	0.7	8.2	2.0	10.9	4.5	12.6	1.1	20.2	1.4	4.8	55.4	34.3	2.3	2.5	34.9	33.9	
Cyprus	110	33.2	0.0	2.0	24.9	1.9	0.9	17.9	5.2	1.0	1.6	0.9	10.5	62.9	35.2	6.8	3.7	29.8	38.3	
Czech Republic	271	31.4	1.1	1.3	6.9	2.1	1.3	6.5	8.6	4.3	8.5	0.9	27.1	44.2	33.9	16.4	10.7	25.5	45.0	
Denmark	422	13.6	1.8	0.9	17.1	4.1	2.4	9.6	5.1	3.8	12.3	1.5	27.8	39.9	16.2	13.5	14.3	15.3	17.2	
France	259	51.1	2.0	0.3	6.7	0.9	3.5	2.8	5.1	0.5	9.3	0.4	17.5	64.5	53.4	9.1	8.4	59.3	49.5	
Germany	732	18.2	1.4	1.5	7.2	0.4	2.4	6.8	1.8	0.6	10.0	16.9	32.8	31.1	21.0	17.9	14.9	21.1	21.5	
Greece	109	64.9	0.0	0.0	0.6	0.0	0.0	2.9	0.0	0.0	0.9	1.4	29.3	65.5	64.9	20.0	9.3	53.7	70.6	
Hungary
Iceland
Israel	206	42.2	4.9	1.9	25.2	0.0	1.0	18.9	0.0	0.5	1.0	0.0	4.4	75.2	49.0	3.9	0.5	61.6	36.7	
Italy	121	19.0	10.3	5.8	5.6	0.6	4.2	7.0	2.5	2.7	6.0	0.0	36.3	45.5	35.1	27.7	8.5	44.8	28.2	
Latvia (LSS)
Lithuania	249	27.9	2.1	0.0	14.1	0.0	4.0	10.6	1.3	0.5	8.7	4.6	26.2	48.1	30.0	22.0	4.2	24.5	35.2	
Netherlands
New Zealand
Norway
Russian Federation	445	40.5	1.7	2.0	15.9	0.7	0.9	0.8	6.7	3.0	7.0	1.0	19.7	61.7	44.2	16.1	3.6	45.2	43.2	
Slovenia	430	17.6	1.1	1.2	4.5	0.4	14.9	8.6	0.0	0.6	10.4	3.3	37.3	39.8	20.0	19.3	17.9	19.1	21.1	
South Africa
Sweden	253	37.8	2.2	0.8	6.8	1.6	0.8	9.6	3.5	0.0	11.0	1.0	25.0	50.0	40.7	17.4	7.6	46.3	38.5	
Switzerland	360	41.3	0.9	4.2	11.8	3.1	1.7	7.7	3.0	1.5	4.5	1.8	18.5	62.9	46.3	8.1	10.4	45.1	48.1	
United States	759	9.1	0.6	0.0	7.4	0.5	1.4	3.8	33.6	3.7	22.2	1.9	15.9	18.9	9.7	12.5	3.4	11.4	8.2	
INTERNATIONAL AVG	.	31.5	1.9	1.4	10.7	1.3	3.2	8.0	6.1	1.6	8.9	2.9	22.6	49.9	34.8	14.0	8.6	35.3	34.8	

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: L01 KEY: B
 VALUES OF X FOR AN INEQUALITY (Numbers, Equations and Functions)
 Difficulty: 444

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	16.3	68.5	5.4	6.4	1.5	1.9	68.5	0.0	0.0	1.9	69.5	67.6
Austria	197	24.2	43.3	11.4	10.0	3.1	8.1	43.3	0.0	0.4	7.8	38.6	54.4
Canada	794	18.5	67.7	4.0	5.4	2.5	1.8	67.7	0.5	0.0	1.3	69.1	66.8
Cyprus	118	13.3	80.5	4.3	0.9	1.0	0.0	80.5	0.0	0.0	0.0	80.7	80.2
Czech Republic	273	5.2	84.2	2.9	0.4	0.9	6.4	84.2	4.0	0.0	2.4	82.9	85.9
Denmark	412	10.4	78.5	2.1	4.0	1.9	3.2	78.5	0.5	0.0	2.7	80.7	76.5
France	269	9.0	85.5	0.2	1.1	0.0	4.3	85.5	3.9	0.0	0.4	89.0	84.0
Germany	706	16.6	55.5	6.5	3.8	2.0	15.5	55.5	9.8	0.3	5.4	57.6	53.2
Greece	116	9.6	82.8	3.5	2.0	1.3	0.8	82.8	0.0	0.0	0.8	88.4	81.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	4.3	93.5	0.0	1.3	0.9	0.0	93.5	0.0	0.0	0.0	94.3	92.1
Italy	113	13.9	72.7	2.9	0.0	2.8	7.8	72.7	2.5	0.0	5.3	76.1	69.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	3.2	95.7	0.0	0.2	0.0	1.0	95.7	0.7	0.0	0.2	96.0	95.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	8.5	88.2	0.4	0.6	1.4	0.8	88.2	0.0	0.0	0.8	89.7	87.1
Slovenia	419	13.5	70.5	1.9	4.9	2.4	6.9	70.5	2.6	0.0	4.3	79.8	60.1
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	20.0	58.4	2.7	6.1	2.1	10.7	58.4	7.5	0.0	3.3	62.9	56.3
Switzerland	351	20.2	69.3	3.3	0.8	1.7	4.7	69.3	2.9	0.0	1.8	62.0	75.8
United States	804	14.1	68.1	7.2	6.4	2.4	1.8	68.1	0.4	0.0	1.4	67.8	68.4
INTERNATIONAL AVG	.	13.0	74.3	3.4	3.2	1.6	4.5	74.3	2.1	0.0	2.3	75.6	73.8

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

Item: L02 KEY: D
 SOLVE AN EQUATION USING BASE b (Numbers, Equations and Functions)
 Difficulty: 505

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	2.2	8.4	1.2	67.7	18.5	2.0	67.7	0.0	0.0	2.0	57.4	76.3
Austria	197	3.1	7.2	5.5	47.8	25.8	10.6	47.8	0.0	0.4	10.2	46.7	47.9
Canada	794	2.1	9.6	3.6	69.6	14.0	1.0	69.6	0.0	0.0	1.0	65.1	73.6
Cyprus	118	1.5	5.9	3.5	71.9	15.3	1.9	71.9	0.0	0.0	1.9	71.7	71.7
Czech Republic	273	1.6	8.8	2.3	51.4	24.1	11.9	51.4	4.4	0.0	7.5	45.1	59.7
Denmark	412	3.5	6.9	1.3	62.1	13.4	12.9	62.1	0.7	0.0	12.2	54.1	66.9
France	269	2.3	3.7	1.4	60.7	16.4	15.5	60.7	0.0	0.0	15.5	59.3	61.8
Germany	706	2.9	9.9	1.6	40.5	23.7	21.4	40.5	0.1	0.4	20.8	40.9	40.5
Greece	116	2.4	1.3	1.2	79.3	10.7	5.1	79.3	0.0	0.0	5.1	81.7	79.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	0.9	1.3	0.4	89.2	6.5	1.7	89.2	0.0	0.0	1.7	91.0	89.1
Italy	113	2.1	8.4	3.6	51.8	20.5	13.6	51.8	2.8	0.0	10.8	38.0	63.5
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	1.0	5.6	0.0	83.8	3.0	6.5	83.8	0.0	0.0	6.5	78.3	89.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	1.5	5.0	3.2	82.6	5.1	2.7	82.6	0.0	0.0	2.7	76.3	87.4
Slovenia	419	2.8	8.0	2.8	49.9	21.4	15.1	49.9	0.0	0.0	15.1	53.3	46.1
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	4.1	11.5	3.7	60.8	14.2	5.7	60.8	0.0	0.0	5.7	64.1	59.2
Switzerland	351	2.7	4.6	0.9	62.4	14.4	15.0	62.4	0.0	0.0	15.0	60.7	64.6
United States	804	7.3	9.5	6.5	56.3	18.5	1.8	56.3	0.0	0.0	1.8	52.6	59.8
INTERNATIONAL AVG	.	2.6	6.8	2.5	64.0	15.6	8.5	64.0	0.5	0.0	8.0	61.0	66.8

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

Item: L03 KEY: A
 VALUE OF CONSTANT FOR RADIOACTIVE DECAY (Numbers, Equations and Functions)
 Difficulty: 610

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	55.9	14.1	7.7	14.6	5.3	2.5	55.9	0.0	0.0	2.5	55.6	56.1
Austria	196	31.2	17.3	10.1	16.8	10.8	13.8	31.2	0.0	0.4	13.4	27.4	39.4
Canada	794	46.4	11.8	4.8	18.8	12.7	5.6	46.4	0.0	0.0	5.6	50.7	42.9
Cyprus	118	52.1	12.5	1.9	24.9	3.1	5.5	52.1	0.0	0.0	5.5	39.1	58.7
Czech Republic	273	35.2	7.7	5.6	18.3	12.1	21.2	35.2	4.4	0.0	16.8	30.0	42.0
Denmark	412	59.9	7.7	4.9	6.0	4.9	16.6	59.9	0.2	0.2	16.2	53.9	63.6
France	269	47.3	6.4	6.2	9.8	7.3	23.1	47.3	0.3	0.0	22.7	47.0	48.2
Germany	706	36.5	8.8	7.3	8.2	11.9	27.4	36.5	0.9	0.4	26.1	36.5	36.2
Greece	116	64.7	5.9	4.8	13.6	3.7	7.2	64.7	1.0	0.0	6.2	68.0	63.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	40.9	12.9	10.8	14.2	3.0	18.1	40.9	0.0	0.0	18.1	32.8	51.5
Italy	113	29.6	15.8	4.4	14.9	7.0	28.3	29.6	0.0	0.0	28.3	27.5	31.3
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	34.5	6.2	1.9	6.5	15.2	35.8	34.5	0.0	0.0	35.8	25.2	43.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	47.7	9.7	2.9	5.1	15.7	18.8	47.7	0.7	0.0	18.1	32.0	59.8
Slovenia	419	20.4	10.5	9.7	14.0	9.1	36.4	20.4	0.1	0.0	36.3	21.7	19.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	65.8	10.8	5.9	10.3	4.7	2.4	65.8	0.0	0.0	2.4	65.1	66.2
Switzerland	351	37.6	13.5	4.5	14.3	4.3	25.8	37.6	0.2	0.0	25.6	29.7	45.8
United States	804	39.2	14.2	7.6	20.1	12.1	6.9	39.2	0.0	0.0	6.9	40.3	38.1
INTERNATIONAL AVG	.	43.8	10.9	5.9	13.6	8.4	17.4	43.8	0.5	0.1	16.9	40.1	47.4

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

Item: L04 KEY: C
 CONTRIBUTIONS OF EXAMINATION QUESTION CHOICES (Numbers, Equations and Functions)
 Difficulty: 582

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	20.1	0.6	70.3	2.1	5.1	1.7	70.3	0.0	0.0	1.7	73.5	67.7
Austria	197	16.5	5.3	39.7	4.9	28.5	5.1	39.7	0.0	0.4	4.7	39.4	43.5
Canada	794	11.6	2.1	49.9	8.5	23.1	4.8	49.9	0.0	0.0	4.8	48.0	51.3
Cyprus	118	2.4	6.8	63.2	7.0	17.1	3.5	63.2	0.0	0.0	3.5	57.5	67.3
Czech Republic	273	18.9	5.1	41.7	20.5	9.6	4.2	41.7	1.3	0.0	2.9	31.1	55.6
Denmark	412	12.7	3.3	39.4	6.3	25.4	12.8	39.4	0.3	0.2	12.3	31.8	44.1
France	269	9.9	0.0	77.7	3.2	8.1	1.2	77.7	0.0	0.0	1.2	75.8	79.4
Germany	706	17.3	6.0	34.8	10.0	16.9	15.0	34.8	0.2	0.4	14.5	31.5	39.7
Greece	116	13.1	5.5	45.7	8.0	22.9	4.8	45.7	0.0	0.0	4.8	39.8	47.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	8.6	4.3	50.9	6.9	16.4	12.9	50.9	0.0	0.0	12.9	43.4	59.4
Italy	113	17.0	12.7	26.7	3.8	9.0	30.8	26.7	0.0	0.0	30.8	16.2	35.6
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	25.5	1.3	47.3	3.6	7.9	14.4	47.3	0.0	0.0	14.4	37.6	56.7
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	26.0	5.7	33.8	7.6	13.1	13.7	33.8	0.0	0.0	13.7	27.6	38.6
Slovenia	419	14.4	2.7	51.2	13.1	10.4	8.3	51.2	0.2	0.0	8.1	52.6	49.6
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	13.3	5.1	46.3	13.0	21.3	1.0	46.3	0.0	0.0	1.0	39.8	49.3
Switzerland	351	8.0	1.7	57.4	3.8	18.5	10.6	57.4	0.0	0.0	10.6	55.5	58.5
United States	804	18.0	6.5	36.3	8.5	24.6	6.1	36.3	0.0	0.0	6.1	36.3	36.3
INTERNATIONAL AVG	.	14.9	4.4	47.8	7.7	16.3	8.9	47.8	0.1	0.1	8.7	43.4	51.8

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

Item: L05 KEY: B
 SUM OF INFINITE GEOMETRIC SERIES (Calculus)
 Difficulty: 597

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	11.7	54.5	0.6	2.5	30.1	0.6	54.5	0.0	0.0	0.6	50.0	58.2
Austria	197	15.4	18.8	3.4	1.3	58.6	2.6	18.8	0.0	0.4	2.2	11.1	38.0
Canada	794	11.2	53.5	2.1	3.9	28.0	1.2	53.5	0.0	0.0	1.2	47.8	58.4
Cyprus	118	5.3	79.3	2.6	4.8	7.0	1.0	79.3	0.0	0.0	1.0	83.5	76.7
Czech Republic	273	10.5	39.0	1.6	11.4	28.7	8.8	39.0	4.8	0.0	4.1	26.4	55.6
Denmark	412	7.8	31.6	1.3	1.9	49.3	8.1	31.6	0.6	0.2	7.3	25.1	36.2
France	269	8.2	43.6	2.6	4.6	35.5	5.5	43.6	0.0	0.0	5.5	33.0	50.5
Germany	706	14.5	25.1	4.1	3.0	49.7	3.6	25.1	0.1	0.4	3.1	18.5	34.1
Greece	116	6.8	60.9	2.3	9.0	17.1	3.9	60.9	0.0	0.0	3.9	55.7	63.5
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	8.6	55.6	5.6	6.0	21.1	3.0	55.6	0.0	0.0	3.0	54.1	58.4
Italy	113	16.8	22.5	4.4	5.1	38.3	13.0	22.5	0.0	0.0	13.0	19.1	25.3
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	8.1	64.5	2.6	1.2	14.6	9.1	64.5	0.0	0.0	9.1	59.9	69.0
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	8.2	57.0	1.9	4.4	22.5	5.9	57.0	0.0	0.0	5.9	50.1	62.3
Slovenia	419	4.8	23.4	1.9	10.9	36.3	22.7	23.4	0.4	0.0	22.4	26.1	20.3
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	5.1	54.6	5.0	1.3	33.6	0.4	54.6	0.0	0.0	0.4	45.2	59.0
Switzerland	351	8.6	54.8	6.4	2.4	23.1	4.6	54.8	0.0	0.0	4.6	44.9	63.6
United States	804	17.9	26.3	5.0	7.9	41.5	1.3	26.3	0.0	0.0	1.3	22.0	30.2
INTERNATIONAL AVG	.	10.0	45.0	3.1	4.8	31.5	5.6	45.0	0.3	0.1	5.2	39.5	50.6

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

Item: L06 KEY: B
 CRITICAL POINT OF VELOCITY EQUATION (Calculus)
 Difficulty: 669

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	2.9	62.9	26.2	6.8	1.3	0.0	62.9	0.0	0.0	0.0	55.4	69.2
Austria	197	2.2	12.4	63.4	10.6	7.3	4.2	12.4	0.0	0.4	3.9	8.2	20.0
Canada	794	5.8	53.0	35.4	2.6	2.8	0.4	53.0	0.0	0.0	0.4	49.3	56.2
Cyprus	118	4.3	49.1	39.7	5.1	1.8	0.0	49.1	0.0	0.0	0.0	51.0	48.7
Czech Republic	273	5.0	8.6	70.2	3.6	2.7	9.8	8.6	6.2	0.0	3.6	5.0	13.5
Denmark	412	7.0	38.1	44.3	3.1	2.3	5.2	38.1	0.2	0.2	4.8	35.2	39.6
France	269	2.5	51.2	39.7	3.2	0.6	2.8	51.2	0.3	0.0	2.6	51.5	50.3
Germany	706	4.1	9.9	70.1	6.2	2.0	7.8	9.9	0.1	0.4	7.2	7.4	13.6
Greece	116	4.7	32.7	47.4	6.6	4.8	3.8	32.7	0.0	0.0	3.8	32.4	33.0
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	3.0	12.5	65.9	6.5	3.4	8.6	12.5	0.0	0.0	8.6	5.7	21.8
Italy	113	9.9	19.7	47.6	2.4	3.4	17.0	19.7	0.7	0.0	16.3	23.8	16.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	1.0	27.0	65.5	0.9	0.2	5.5	27.0	0.0	0.0	5.5	19.5	34.2
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	6.6	43.5	40.1	2.2	2.4	5.2	43.5	0.0	0.0	5.2	40.5	45.8
Slovenia	419	1.5	4.9	71.1	5.7	2.2	14.6	4.9	0.0	0.0	14.5	4.0	6.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	7.2	63.1	22.3	4.8	2.0	0.6	63.1	0.0	0.0	0.6	69.7	60.0
Switzerland	351	3.4	21.1	63.8	5.7	2.0	4.0	21.1	0.0	0.0	4.0	17.4	24.3
United States	804	5.1	25.7	59.1	6.6	2.9	0.7	25.7	0.1	0.0	0.6	23.8	27.4
INTERNATIONAL AVG	.	4.5	31.5	51.3	4.8	2.6	5.3	31.5	0.5	0.1	4.8	29.4	34.1

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

Item: L07 KEY: C
 GRAPH OF $y=f(x)$ (Calculus)
 Difficulty: 658

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	31.0	11.2	34.5	18.0	3.5	1.8	34.5	0.0	0.0	1.8	26.3	41.4
Austria	197	43.9	6.7	19.0	15.1	8.5	6.8	19.0	0.0	0.4	6.5	11.4	36.0
Canada	794	23.8	8.4	28.4	21.8	12.5	5.1	28.4	0.0	0.0	5.1	29.2	27.7
Cyprus	118	24.5	5.2	51.2	12.9	6.2	0.0	51.2	0.0	0.0	0.0	49.9	51.2
Czech Republic	273	25.4	5.1	24.6	18.7	11.8	14.5	24.6	1.6	0.0	12.9	19.0	31.9
Denmark	412	36.5	6.4	38.7	11.5	1.9	5.0	38.7	0.5	0.2	4.3	32.9	41.4
France	269	46.2	5.9	38.6	5.4	2.1	1.8	38.6	0.0	0.0	1.8	33.1	41.5
Germany	706	36.6	4.9	26.5	18.1	4.1	9.9	26.5	0.9	0.7	8.3	23.7	30.1
Greece	116	23.3	17.3	32.0	25.3	1.3	0.8	32.0	0.0	0.0	0.8	39.7	29.1
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	39.7	6.5	34.1	13.4	2.2	4.3	34.1	0.0	0.0	4.3	32.0	36.6
Italy	113	26.0	8.8	41.8	13.3	4.1	6.0	41.8	0.0	0.0	6.0	41.5	42.1
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	29.6	10.1	31.1	4.4	4.2	20.6	31.1	0.0	0.0	20.6	23.5	38.4
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	33.5	6.6	42.9	7.6	4.0	5.3	42.9	0.0	0.0	5.2	41.8	43.8
Slovenia	419	20.2	3.1	25.2	8.6	12.1	30.8	25.2	0.1	0.0	30.7	26.4	23.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	26.8	10.1	48.0	9.0	3.8	2.2	48.0	0.2	0.0	2.0	36.3	53.5
Switzerland	351	31.0	3.7	43.6	13.0	3.7	5.0	43.6	0.0	0.0	5.0	35.0	52.0
United States	804	22.4	10.3	27.4	19.4	14.1	6.4	27.4	0.1	0.0	6.4	24.0	30.5
INTERNATIONAL AVG	.	30.6	7.7	34.6	13.9	5.9	7.4	34.6	0.2	0.1	7.2	30.9	38.3

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

Item: L08 KEY: E
 COORDINATES OF FOURTH POINT OF A RECTANGLE (Geometry)
 Difficulty: 576

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	7.6	14.1	9.7	12.4	53.4	2.7	53.4	0.0	0.0	2.7	46.1	59.6
Austria	197	9.9	13.3	9.2	14.5	41.5	11.6	41.5	0.0	0.4	11.2	40.3	44.5
Canada	794	10.4	9.6	5.9	22.5	48.7	2.8	48.7	0.0	0.0	2.8	46.3	50.9
Cyprus	118	6.2	10.4	14.6	13.4	48.4	6.9	48.4	0.0	0.0	6.9	57.3	42.8
Czech Republic	273	9.1	13.1	10.1	9.4	48.6	9.7	48.6	5.9	0.0	3.8	45.7	52.3
Denmark	412	8.1	5.1	3.2	13.0	63.1	7.4	63.1	0.2	0.2	7.0	59.4	66.1
France	269	3.8	2.1	4.2	6.2	82.4	1.3	82.4	0.0	0.0	1.3	73.6	87.6
Germany	706	11.6	11.2	8.0	15.7	38.7	14.9	38.7	1.6	0.7	12.6	40.0	36.3
Greece	116	1.5	11.5	14.8	12.9	51.2	8.1	51.2	0.0	0.0	8.1	53.7	50.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Italy	113	12.9	8.1	11.4	6.7	46.2	14.8	46.2	0.0	0.0	14.8	37.7	53.3
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	4.8	2.1	7.5	14.7	50.5	20.4	50.5	0.0	0.0	20.4	38.2	62.5
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	8.9	6.6	7.6	12.4	54.8	9.7	54.8	0.0	0.0	9.7	44.6	62.6
Slovenia	419	9.4	14.4	8.4	11.5	38.5	17.8	38.5	0.8	0.0	17.0	37.9	39.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	6.5	20.8	8.1	14.0	44.8	5.8	44.8	0.6	0.0	5.2	44.1	45.1
Switzerland	351	11.8	8.4	5.4	10.8	50.1	13.5	50.1	0.6	0.0	12.9	48.6	50.6
United States	804	9.7	17.4	9.4	22.2	38.9	2.5	38.9	0.0	0.0	2.5	38.1	39.6
INTERNATIONAL AVG	.	8.3	10.5	8.6	13.3	50.0	9.4	50.0	0.6	0.1	8.7	47.0	52.7

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

Item: L09 KEY: A
 TRANSFORMATION OF A RECTANGLE (Geometry)
 Difficulty: 546

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	57.7	13.8	17.5	10.7	0.4	57.7	0.0	0.0	0.4	51.6	62.7
Austria	197	50.2	21.1	7.3	15.7	5.8	50.2	0.0	0.4	5.5	45.0	60.0
Canada	794	63.2	8.4	13.0	14.0	1.3	63.2	0.0	0.4	0.9	64.4	62.4
Cyprus	118	30.2	39.9	15.6	13.4	0.9	30.2	0.0	0.0	0.9	25.0	32.2
Czech Republic	273	54.0	17.7	5.8	19.3	3.2	54.0	2.6	0.0	0.5	47.5	62.5
Denmark	412	70.2	3.8	10.6	8.2	7.2	70.2	5.5	0.2	1.6	67.6	71.0
France	269	62.8	5.5	12.0	11.4	8.4	62.8	3.0	0.0	5.3	58.1	66.4
Germany	706	71.6	7.3	3.7	11.6	5.8	71.6	3.9	0.7	1.3	69.8	74.5
Greece	116	45.7	16.7	17.1	17.8	2.7	45.7	1.0	0.0	1.6	39.1	48.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	45.3	20.7	11.2	21.6	1.3	45.3	0.0	0.0	1.3	46.7	44.6
Italy	113	56.0	10.0	7.9	22.9	3.3	56.0	1.4	0.0	1.9	52.4	59.0
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	60.8	17.0	7.6	8.0	6.6	60.8	0.0	0.0	6.6	52.6	68.7
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	448	64.2	8.4	11.2	12.9	3.2	64.2	0.2	0.0	3.1	57.8	69.0
Slovenia	419	44.8	12.2	17.5	16.0	9.5	44.8	7.6	0.0	1.9	46.2	43.2
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	37.4	14.5	31.2	9.6	7.2	37.4	4.9	0.5	1.8	27.7	42.0
Switzerland	351	82.4	3.7	4.1	6.3	3.5	82.4	2.5	0.0	1.0	79.2	85.2
United States	804	46.7	13.1	23.1	16.7	0.4	46.7	0.0	0.0	0.4	44.3	48.8
INTERNATIONAL AVG	.	55.5	13.8	12.7	13.9	4.2	55.5	1.9	0.1	2.1	51.5	58.9

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

Item: L10 KEY: A
 PROBABILITY OF AT LEAST ONE ALARM OPERATING (Probability & Statistics)
 Difficulty: 691

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	45.5	18.8	5.1	2.7	26.5	1.5	45.5	0.0	0.0	1.5	42.4	48.1
Austria	197	32.4	21.6	7.3	8.4	21.7	8.6	32.4	0.0	0.4	8.2	31.2	33.1
Canada	794	27.5	19.2	8.1	13.4	29.7	2.2	27.5	0.1	0.4	1.8	26.2	28.6
Cyprus	118	33.5	19.4	7.7	11.3	23.9	4.2	33.5	0.0	0.0	4.2	37.3	30.4
Czech Republic	273	22.1	11.3	10.5	11.0	38.6	6.4	22.1	1.4	0.0	5.0	13.5	33.4
Denmark	412	28.1	11.7	9.7	6.9	37.9	5.7	28.1	0.2	0.2	5.3	20.1	32.3
France	269	33.8	6.9	11.7	6.4	38.4	2.8	33.8	0.0	0.0	2.8	33.1	33.9
Germany	706	24.2	18.9	8.2	12.7	20.5	15.4	24.2	1.1	0.7	13.7	20.9	28.6
Greece	116	17.6	21.7	13.8	16.4	24.5	6.0	17.6	0.0	0.6	5.4	11.2	20.4
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	16.4	23.3	11.6	11.6	18.5	18.5	16.4	0.0	0.0	18.5	9.0	25.7
Italy	113	11.6	11.3	12.3	9.9	44.6	10.4	11.6	0.0	0.0	10.4	12.0	11.2
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	18.2	14.4	7.4	2.7	32.0	25.4	18.2	0.0	0.0	25.4	6.1	29.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	448	30.4	6.2	13.9	11.8	19.5	18.2	30.4	0.5	0.0	17.8	25.2	34.3
Slovenia	419	23.2	12.3	12.8	8.6	28.3	14.9	23.2	0.8	0.0	14.0	28.3	17.4
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	52.9	9.3	5.0	3.1	27.3	2.4	52.9	0.0	0.5	1.8	38.0	59.8
Switzerland	351	40.3	13.2	9.1	5.5	21.2	10.6	40.3	0.0	0.0	10.6	31.5	47.9
United States	804	21.3	27.0	11.5	16.7	21.6	1.9	21.3	0.1	0.0	1.8	14.9	27.2
INTERNATIONAL AVG	.	28.2	15.7	9.8	9.4	27.9	9.1	28.2	0.2	0.2	8.7	23.6	31.9

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

Item: L11 KEY: C
 LOGICAL DEDUCTION FROM SERIES OF STATEMENTS (Validation and Structure)
 Difficulty: 425

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	0.7	3.5	78.3	17.6	0.0	78.3	0.0	0.0	0.0	77.5	78.9
Austria	197	4.0	4.0	63.6	26.1	2.3	63.6	0.0	0.4	1.9	61.1	66.4
Canada	794	4.6	4.6	70.4	17.5	2.9	70.4	0.0	0.4	2.5	72.1	69.2
Cyprus	118	2.0	6.3	80.0	10.0	1.7	80.0	0.0	0.0	1.7	78.2	80.6
Czech Republic	273	1.9	3.0	84.1	10.5	0.4	84.1	0.4	0.0	0.0	81.4	87.8
Denmark	412	3.5	2.0	80.0	11.6	2.9	80.0	0.8	0.2	1.9	82.2	77.9
France	269	1.6	4.6	77.3	14.6	2.0	77.3	0.3	0.0	1.7	81.3	74.0
Germany	706	3.1	2.8	75.0	16.3	2.8	75.0	0.4	0.7	1.7	80.9	68.5
Greece	116	4.5	6.3	73.2	11.6	4.5	73.2	0.0	0.6	3.9	73.8	72.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	2.6	3.4	84.1	9.9	0.0	84.1	0.0	0.0	0.0	81.1	86.1
Italy	113	2.9	1.8	76.9	16.4	2.0	76.9	0.0	0.0	2.0	77.2	76.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	2.5	3.5	87.5	6.3	0.2	87.5	0.0	0.2	0.0	87.7	87.3
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	4.2	11.6	68.9	13.5	1.9	68.9	0.0	0.0	1.9	62.1	74.2
Slovenia	419	4.6	2.3	74.1	17.2	1.8	74.1	0.9	0.0	0.8	74.4	73.7
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	3.7	3.9	66.6	22.8	3.1	66.6	1.0	0.5	1.6	74.4	62.9
Switzerland	351	2.2	4.5	83.0	10.0	0.3	83.0	0.2	0.2	0.0	86.6	79.8
United States	804	5.4	7.3	69.8	17.2	0.3	69.8	0.0	0.0	0.3	73.7	66.2
INTERNATIONAL AVG	.	3.2	4.4	76.0	14.6	1.7	76.0	0.2	0.2	1.3	76.8	75.5

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

Item: L12 KEY: A
 LENGTH OF DIAGONAL IN A REGULAR HEXAGON (Geometry)
 Difficulty: 486

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	189	68.7	5.2	6.5	8.3	8.4	2.9	68.7	0.0	0.0	2.9	64.5	72.3
Austria	197	66.4	13.4	7.2	2.4	5.7	4.9	66.4	0.0	0.4	4.6	62.5	76.2
Canada	794	65.2	8.4	7.8	9.4	7.2	2.0	65.2	0.0	0.4	1.6	61.5	68.4
Cyprus	118	60.6	4.3	11.0	16.4	5.9	1.8	60.6	0.0	0.0	1.8	44.0	70.7
Czech Republic	273	64.4	11.4	7.3	4.2	6.6	6.1	64.4	4.2	0.0	2.0	56.4	74.9
Denmark	412	79.1	3.5	3.0	4.6	2.0	7.8	79.1	0.2	0.2	7.4	78.1	79.9
France	269	74.8	3.7	7.7	4.1	4.1	5.6	74.8	0.0	0.0	5.6	70.8	77.3
Germany	706	60.8	13.2	5.8	3.6	6.8	9.8	60.8	0.3	1.1	8.4	60.0	61.6
Greece	116	52.1	4.2	11.8	17.3	11.6	3.0	52.1	0.0	0.6	2.4	52.1	52.6
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	99.1	0.0	0.4	0.0	0.4	0.0	99.1	0.0	0.0	0.0	100.0	99.0
Italy	113	61.9	8.0	10.9	3.4	3.9	11.9	61.9	0.0	0.0	11.9	54.5	68.3
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	69.7	3.9	5.9	11.9	3.2	5.4	69.7	0.0	0.2	5.2	57.6	81.5
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	450	71.2	4.7	5.7	10.5	4.1	3.7	71.2	0.7	0.6	2.5	62.4	78.0
Slovenia	419	59.0	9.4	10.4	7.7	3.8	9.8	59.0	0.3	0.0	9.5	61.7	55.9
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	75.3	2.9	9.9	4.8	4.1	3.0	75.3	0.0	0.8	2.2	73.6	76.1
Switzerland	351	73.9	2.7	6.5	5.1	4.6	7.3	73.9	0.0	0.2	7.1	67.8	80.6
United States	804	59.9	13.3	7.1	6.7	11.3	1.6	59.9	0.0	0.0	1.6	55.5	64.0
INTERNATIONAL AVG	.	68.4	6.6	7.3	7.1	5.5	5.1	68.4	0.3	0.3	4.5	63.7	72.8

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

Item: L13
 ANGLE BETWEEN TWO VECTORS (Geometry)
 Difficulty: 699

COUNTRY	N	NOT REACHED													V1	OMIT	1.GIRL % Right	2.BOY % Right
		10	11	12	13	19	70	71	72	73	79	90	99					
Australia	189	8.5	1.9	11.0	5.9	7.9	6.8	0.0	1.2	2.3	13.4	2.2	39.0	35.1	0.4	38.6	27.9	41.1
Austria	197	17.6	0.0	0.0	5.3	1.6	4.9	0.0	0.0	10.4	11.2	17.3	31.7	24.5	0.4	31.3	18.3	40.5
Canada	794	7.7	2.7	4.1	12.1	5.7	6.0	2.0	1.4	0.4	23.4	4.9	29.4	32.4	0.4	29.0	25.4	38.3
Cyprus	117	16.4	8.1	1.0	0.9	1.0	6.0	0.0	0.8	13.0	6.1	3.6	43.1	27.4	0.0	43.1	23.9	29.7
Czech Republic	273	7.4	0.3	3.5	6.5	3.0	12.2	0.0	0.8	3.0	9.0	9.2	45.1	20.8	0.0	45.1	12.6	31.4
Denmark	412	25.1	1.6	3.0	9.7	2.6	12.4	0.7	1.5	4.9	9.9	0.5	28.1	42.0	0.2	28.0	34.7	45.3
France	269	25.1	1.1	1.4	1.4	1.3	6.7	0.0	0.0	0.4	11.4	1.2	50.0	30.3	0.4	49.6	23.2	34.5
Germany	704	20.3	1.2	2.2	1.6	2.7	10.1	0.0	0.4	6.2	7.3	18.7	29.3	28.0	2.2	27.1	21.5	35.7
Greece	116	14.5	31.7	0.0	0.7	0.0	6.3	2.5	0.0	1.3	1.7	2.5	38.8	47.0	0.6	38.2	28.7	54.8
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	9.5	3.9	2.6	4.3	2.2	9.5	0.9	0.4	7.3	6.5	0.4	52.6	22.4	0.0	52.6	12.3	34.7
Italy	113	7.4	3.7	1.7	0.4	2.9	12.9	0.0	0.0	0.0	2.1	4.3	64.6	16.1	1.6	63.0	9.3	21.8
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	12.5	3.8	5.4	0.0	0.3	5.3	0.0	0.0	0.0	1.5	7.9	63.3	22.0	0.5	62.9	10.6	33.1
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	21.7	6.1	4.6	0.8	5.1	6.7	0.8	0.0	2.1	3.3	2.8	46.1	38.3	0.6	45.5	26.6	47.4
Slovenia	419	12.9	2.0	3.2	1.2	1.1	6.4	0.0	0.2	0.7	14.2	6.0	52.2	20.4	0.3	51.9	20.7	20.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	11.5	0.0	0.3	7.8	5.1	4.4	0.0	0.3	0.2	7.2	3.0	60.3	24.6	1.0	59.3	23.4	25.2
Switzerland	351	14.4	0.8	4.5	11.9	4.1	7.3	0.3	0.0	7.8	21.2	6.4	21.3	35.7	0.6	20.7	25.9	45.2
United States	804	6.5	0.1	0.4	7.2	0.7	13.5	0.2	0.6	0.6	31.4	9.0	29.8	14.9	0.0	29.8	11.2	18.3
INTERNATIONAL AVG	.	14.1	4.1	2.9	4.6	2.8	8.1	0.4	0.5	3.6	10.6	5.9	42.6	28.3	0.5	42.1	21.0	35.1

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: L14
 PROBABILITY OF BOTH SMOKING AND DRINKING (Probability & Statistics)
 Difficulty: 570

COUNTRY	N	10	70	71	72	73	79	90	99	V1	NOT	OMIT	1. GIRL	2. BOY
											REACH		% Right	% Right
											ED			
Australia	189	75.4	0.0	1.8	0.0	0.3	12.5	0.0	10.0	75.4	2.9	7.2	71.2	78.9
Austria	197	40.3	1.4	1.3	0.8	2.4	19.1	10.5	24.2	40.3	2.1	22.1	33.0	58.4
Canada	794	58.6	0.2	1.0	0.6	0.7	21.3	2.4	15.4	58.6	0.7	14.7	56.7	60.0
Cyprus	117	40.8	3.1	0.0	0.0	0.0	15.7	11.5	28.8	40.8	0.0	28.8	42.3	39.1
Czech Republic	272	32.6	0.6	1.2	1.0	5.3	15.1	7.4	36.8	32.6	0.9	35.8	16.3	53.8
Denmark	412	67.4	1.4	0.3	0.5	1.7	13.4	0.2	15.1	67.4	0.6	14.5	55.4	73.8
France	269	79.2	0.0	0.9	0.2	1.4	12.8	0.4	5.1	79.2	0.5	4.6	77.5	79.8
Germany	704	41.3	0.8	0.3	0.0	1.7	12.6	18.3	24.9	41.3	3.2	21.8	36.6	48.5
Greece	116	56.3	5.4	0.0	0.6	0.0	3.6	4.8	29.4	56.3	4.0	25.4	52.6	58.2
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	38.4	0.9	0.4	0.0	1.3	12.1	0.4	46.6	38.4	0.0	46.6	28.7	49.5
Italy	113	37.7	0.0	0.3	1.2	2.4	11.6	3.3	43.5	37.7	5.6	37.9	34.0	40.7
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	40.0	0.0	0.0	0.0	0.7	9.4	4.0	45.8	40.0	2.0	43.9	25.0	54.6
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	35.9	0.1	1.1	1.0	2.6	14.4	0.6	44.3	35.9	2.6	41.7	20.7	47.7
Slovenia	419	39.9	0.1	0.3	0.4	1.0	14.8	9.6	33.7	39.9	2.3	31.4	38.7	41.3
South Africa	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	251	65.2	0.0	0.0	1.1	0.3	12.3	0.0	21.0	65.2	1.5	19.5	71.0	62.5
Switzerland	350	54.5	1.9	1.1	0.4	1.7	15.6	8.8	16.1	54.5	0.7	15.4	44.9	63.0
United States	804	54.5	0.4	1.2	0.3	1.1	28.5	1.3	12.7	54.5	0.4	12.3	51.3	57.4
INTERNATIONAL AVG	.	50.5	1.0	0.7	0.5	1.5	14.4	4.9	26.7	50.5	1.8	24.9	44.5	56.9

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: L15A
 CRICKETS/LINE OF BEST FIT (Probability & Statistics)
 Difficulty: 570

COUNTRY	N	10	70	71	90	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	189	60.0	31.5	4.5	0.0	4.0	60.0	2.9	1.1	59.8	60.2
Austria	197	64.7	11.0	11.9	2.5	9.9	64.7	2.1	7.8	61.1	75.1
Canada	794	57.3	25.4	14.7	0.1	2.6	57.3	0.8	1.7	51.9	61.7
Cyprus	118	37.6	44.2	8.6	1.5	8.1	37.6	0.0	8.1	12.7	50.6
Czech Republic	273	33.6	22.2	22.9	1.6	19.7	33.6	0.9	18.8	30.8	37.3
Denmark	412	73.0	15.4	8.2	0.7	2.7	73.0	0.7	2.0	66.8	76.2
France	269	82.1	12.2	2.9	0.0	2.8	82.1	0.7	2.1	79.9	84.1
Germany	706	60.9	19.4	11.4	0.7	7.6	60.9	3.4	4.2	59.3	64.5
Greece	116	21.0	24.0	28.0	1.8	25.1	21.0	4.0	21.1	22.1	19.9
Hungary	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.
Israel	232	34.5	13.4	44.8	0.4	6.9	34.5	0.9	6.0	34.4	35.6
Italy	113	41.2	19.2	5.5	0.2	33.9	41.2	5.6	28.3	44.5	38.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	41.2	11.8	24.7	1.8	20.5	41.2	3.2	17.3	31.1	50.9
Netherlands	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	38.8	19.6	26.0	0.4	15.1	38.8	2.6	12.5	38.6	38.9
Slovenia	419	61.0	2.0	20.2	0.6	16.1	61.0	2.5	13.7	62.1	59.8
South Africa	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	60.8	26.5	7.1	0.3	5.3	60.8	1.5	3.8	60.4	61.0
Switzerland	351	58.9	19.2	12.2	0.6	9.1	58.9	2.4	6.7	63.2	55.4
United States	804	35.6	21.1	37.6	1.1	4.6	35.6	0.5	4.1	31.8	39.0
INTERNATIONAL AVG	.	50.7	19.9	17.1	0.9	11.4	50.7	2.0	9.4	47.7	53.4

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: L15B
 CRICKETS/AIR TEMPERATURE (Probability & Statistics)
 Difficulty: 498

COUNTRY	N	10	11	70	71	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
									REACH ED		% Right	% Right
Australia	189	59.4	25.7	6.4	4.5	0.5	3.5	85.1	2.9	0.6	83.6	86.4
Austria	197	53.0	9.1	13.5	10.6	7.4	6.3	62.2	2.7	3.7	57.8	72.8
Canada	794	57.6	14.6	10.7	14.1	0.0	3.1	72.1	0.9	2.3	70.5	73.4
Cyprus	118	61.2	0.0	17.1	1.9	3.3	16.5	61.2	1.7	14.8	47.7	68.2
Czech Republic	273	29.5	16.4	11.0	22.0	6.8	14.4	45.9	0.9	13.4	41.8	51.2
Denmark	412	63.0	13.2	12.3	8.0	0.7	2.9	76.2	1.0	1.9	79.2	74.5
France	269	76.8	12.0	6.3	1.5	0.0	3.4	88.8	1.7	1.6	87.6	89.8
Germany	705	57.5	16.5	9.7	8.1	1.4	6.7	74.1	3.9	2.9	70.0	79.5
Greece	116	12.2	23.0	6.6	19.3	0.8	38.1	35.1	4.6	33.6	21.4	40.3
Hungary	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	.	.	.	.	.	.	.	.	.	.	.	.
Israel	232	32.8	11.2	3.0	39.7	0.0	13.4	44.0	0.9	12.5	41.8	47.5
Italy	113	39.0	10.9	9.9	4.3	3.0	32.8	49.9	6.6	26.2	43.5	55.4
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	234	36.8	10.1	3.3	21.3	3.2	25.4	46.9	3.2	22.2	40.9	52.7
Netherlands	.	.	.	.	.	.	.	.	.	.	.	.
New Zealand	.	.	.	.	.	.	.	.	.	.	.	.
Norway	.	.	.	.	.	.	.	.	.	.	.	.
Russian Federation	449	35.4	20.8	6.2	21.7	0.7	15.2	56.2	2.6	12.6	52.0	59.5
Slovenia	419	59.2	14.9	2.7	5.9	0.0	17.3	74.1	3.7	13.7	74.3	74.0
South Africa	.	.	.	.	.	.	.	.	.	.	.	.
Sweden	252	57.7	25.6	4.6	6.8	0.0	5.3	83.4	2.4	2.9	80.0	84.9
Switzerland	350	55.9	13.4	9.1	11.0	0.5	10.1	69.3	3.9	6.2	71.2	67.2
United States	804	31.0	16.5	9.6	37.9	0.8	4.2	47.5	0.5	3.7	42.6	52.0
INTERNATIONAL AVG	.	48.1	14.9	8.3	14.0	1.7	12.9	63.1	2.6	10.3	59.2	66.4

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: L16
 SOLUTION OF REAL VALUES OF A QUADRATIC EQUATION (Numbers, Equations and Functions)
 Difficulty: 664

COUNTRY	N	30	31	32	39	20	21	22	29	10	11	12	19	70	79	90	99	V1	V2	V3	NOT	1.GIRL	2.BOY		
																					REACH			OMIT	% Right
Australia	189	8.5	8.8	0.0	2.3	7.4	0.9	0.0	1.8	15.5	2.6	0.0	13.4	7.3	16.8	0.0	14.7	61.2	29.8	19.7	2.9	11.8	15.3	23.4	
Austria	197	2.4	0.5	0.0	0.6	6.4	0.6	0.0	1.8	19.3	5.9	0.0	6.3	6.3	14.5	5.3	30.1	43.8	12.3	3.5	3.4	26.7	2.1	7.0	
Canada	794	7.2	1.8	0.0	2.6	13.5	2.7	0.0	4.4	15.6	2.1	0.0	11.5	9.3	18.6	0.9	9.8	61.4	32.1	11.5	0.9	8.9	7.7	14.8	
Cyprus	118	17.7	4.2	0.0	0.0	30.0	2.4	0.0	5.6	0.0	0.8	0.0	11.4	6.6	5.0	0.9	15.4	72.1	59.9	21.9	2.5	12.9	17.6	24.6	
Czech Republic	273	11.1	7.6	0.0	1.2	11.4	0.7	0.0	2.0	1.9	2.5	0.0	5.9	27.4	6.9	6.7	14.7	44.3	34.0	19.9	1.1	13.5	16.1	24.8	
Denmark	412	5.0	4.1	0.0	0.0	8.5	2.1	0.0	1.2	14.3	2.1	0.4	3.5	20.0	12.2	1.9	24.6	41.3	21.0	9.2	1.1	23.5	7.5	10.4	
France	269	7.6	11.0	0.0	0.6	10.6	2.8	0.5	1.1	4.6	5.9	0.0	7.8	5.8	24.6	1.3	15.8	52.5	34.2	19.2	1.7	14.0	14.8	21.8	
Germany	706	6.1	1.4	0.7	1.8	3.8	0.9	0.4	2.1	11.0	2.6	0.0	9.1	1.0	19.4	18.2	21.5	39.9	17.2	10.0	4.1	17.4	11.3	8.7	
Greece	116	8.7	46.7	3.0	0.0	4.6	1.1	0.6	0.0	0.0	0.0	0.0	0.0	5.5	2.3	6.2	21.3	64.7	64.7	58.3	9.6	11.7	68.0	54.8	
Hungary
Iceland
Israel	232	9.1	23.7	0.0	0.4	31.9	7.8	0.0	3.4	1.3	5.2	0.0	5.6	4.7	3.4	0.4	3.0	88.4	76.3	33.2	0.9	2.2	33.6	35.6	
Italy	113	13.3	4.1	0.0	0.2	9.5	0.0	0.0	2.8	8.7	2.1	0.0	4.6	7.3	11.0	1.1	35.2	45.4	30.0	17.6	7.8	27.4	18.0	17.3	
Latvia (LSS)
Lithuania	234	12.1	50.9	0.0	0.0	6.5	6.2	0.0	0.6	1.6	4.2	0.0	0.0	1.1	3.2	5.0	8.8	81.8	76.1	62.9	4.5	4.3	57.2	68.5	
Netherlands
New Zealand
Norway
Russian Federation	449	10.6	48.7	0.1	1.1	4.6	4.5	0.0	2.0	0.6	4.2	0.3	1.7	8.6	3.9	0.5	8.5	78.5	71.7	60.6	2.6	5.9	55.8	64.2	
Slovenia	419	20.3	10.7	6.7	0.2	0.9	0.4	0.0	0.1	1.0	0.0	0.0	1.4	13.5	28.3	2.2	14.2	41.7	39.2	37.8	4.4	9.9	41.6	33.6	
South Africa
Sweden	252	6.5	1.2	0.0	0.3	8.2	1.2	0.0	1.5	9.5	0.2	1.5	16.4	14.1	10.3	3.1	26.0	46.4	18.8	8.0	2.4	23.6	6.5	8.7	
Switzerland	350	7.9	4.1	0.0	0.2	16.6	1.6	0.0	3.2	8.9	1.7	0.0	9.6	15.7	13.7	2.6	14.2	53.7	33.5	12.2	4.7	9.5	5.5	18.9	
United States	804	4.3	0.5	0.1	2.4	6.6	0.0	0.0	0.4	20.1	1.5	0.0	7.7	15.6	27.1	3.3	10.3	43.7	14.3	7.3	0.6	9.7	6.4	8.2	
INTERNATIONAL AVG	.	9.3	13.5	0.6	0.8	10.6	2.1	0.1	2.0	7.9	2.6	0.1	6.8	10.0	13.0	3.5	17.0	56.5	39.1	24.3	3.2	13.7	22.6	26.2	

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: L17
 EQUATION FOR CIRCLE (Geometry)
 Difficulty: 697

COUNTRY	N	20	21	29	10	11	12	19	70	71	72	73	79	90	99	V1	V2	NOT	1.GIRL	2.BOY		
																		REACH			ED	OMIT	% Right	% Right
Australia	189	18.9	1.4	0.8	0.0	7.2	0.9	1.4	0.0	3.3	8.3	1.9	29.1	3.2	23.7	30.5	21.1	5.6	18.1	17.5	24.1	
Austria	197	2.4	1.5	0.4	0.0	0.9	0.3	0.0	0.0	1.1	7.1	2.9	26.9	9.4	47.2	5.5	4.2	12.7	34.4	3.1	7.2	
Canada	794	17.4	0.4	0.0	0.4	4.1	0.0	2.1	1.3	3.3	10.2	5.5	38.3	1.5	15.7	24.3	17.7	2.9	12.7	14.7	20.3	
Cyprus	118	6.2	23.7	0.0	1.8	0.9	0.0	0.0	4.5	0.0	3.0	2.5	17.6	1.8	38.1	32.6	29.8	8.7	29.4	33.5	28.2	
Czech Republic	273	13.8	0.6	0.3	0.0	5.8	0.0	0.7	1.9	0.0	5.0	3.3	19.6	7.7	41.2	21.4	14.8	3.1	38.1	8.6	22.9	
Denmark	412	23.4	0.0	3.7	1.5	4.8	0.1	3.8	1.1	0.1	4.5	6.2	25.8	0.8	24.3	37.3	27.1	7.2	17.1	30.4	24.4	
France	269	37.5	0.3	0.0	0.0	12.8	0.3	1.1	0.0	0.9	5.4	6.7	12.4	0.9	21.8	51.9	37.7	6.7	15.1	35.4	39.1	
Germany	706	6.2	0.3	0.1	0.6	1.7	0.8	0.6	0.1	0.5	3.4	2.7	21.0	24.9	37.1	10.3	6.6	13.8	23.3	5.8	7.8	
Greece	116	35.3	14.4	2.5	0.0	1.3	0.0	0.0	7.1	1.7	2.7	1.7	1.1	1.9	30.2	53.6	52.2	16.4	13.7	56.9	50.7	
Hungary
Iceland
Israel	232	37.5	4.3	0.4	0.4	5.2	0.0	0.9	0.4	0.4	3.0	12.1	15.1	0.0	20.3	48.7	42.2	0.9	19.4	40.2	47.5	
Italy	113	0.0	8.4	7.7	2.3	2.9	2.1	2.0	0.0	0.0	3.7	0.0	17.7	4.1	49.1	25.4	16.1	14.7	34.5	15.9	16.4	
Latvia (LSS)
Lithuania	234	9.6	3.4	0.0	0.0	0.0	0.0	0.0	0.3	2.4	0.8	0.0	7.8	14.8	60.9	12.9	12.9	6.6	54.3	8.6	17.1	
Netherlands
New Zealand
Norway
Russian Federation	449	30.9	2.6	0.3	0.1	4.3	0.3	0.2	1.3	2.1	1.7	2.4	12.9	1.9	39.0	38.7	33.8	4.8	34.2	27.0	39.0	
Slovenia	419	14.8	0.5	0.0	0.0	1.4	0.0	2.7	0.0	0.3	4.0	7.9	23.6	4.2	40.5	19.4	15.2	8.8	31.8	15.9	14.5	
South Africa
Sweden	252	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.6	3.7	1.1	21.7	4.0	66.2	0.7	0.0	11.2	55.1	0.0	0.0	
Switzerland	350	16.4	1.0	1.1	0.1	1.6	1.1	1.5	0.2	1.8	2.6	3.2	25.9	8.1	35.4	22.8	18.5	6.5	28.9	18.6	18.5	
United States	804	6.8	0.0	0.1	0.0	4.2	0.0	0.4	1.1	3.9	13.9	6.6	40.3	5.3	17.4	11.5	6.9	2.9	14.5	5.7	8.0	
INTERNATIONAL AVG	.	16.3	3.7	1.0	0.4	3.5	0.4	1.0	1.1	1.4	4.9	3.9	21.0	5.6	35.8	26.3	21.0	7.9	27.9	19.9	22.7	

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: L18
 DISTANCE BETWEEN CENTERS OF TWO CIRCLES (Geometry)
 Difficulty: 573

COUNTRY	N	20	21	29	10	11	12	19	70	71	72	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
																	REACH		% Right	% Right	
																	ED				
Australia	189	52.4	6.0	0.0	4.2	0.7	0.0	0.0	3.2	1.8	0.9	12.8	1.8	16.1	63.3	58.4	9.4	6.7	54.5	61.7	
Austria	197	40.3	3.4	0.0	2.1	0.0	0.4	0.9	5.4	2.0	1.5	17.1	6.2	20.7	47.1	43.7	16.4	4.4	36.7	63.1	
Canada	794	50.7	8.0	0.0	5.1	1.8	0.6	0.4	3.1	3.2	1.4	18.1	1.2	6.4	66.6	58.7	4.4	2.0	58.8	58.5	
Cyprus	118	50.3	4.8	0.0	0.0	1.8	0.8	0.9	2.1	2.5	0.0	10.6	1.6	24.3	58.8	55.2	19.3	5.1	68.4	48.6	
Czech Republic	270	48.9	1.5	0.3	12.1	0.0	0.0	2.1	2.5	0.9	0.0	12.3	7.4	12.0	64.9	50.7	9.4	2.6	42.5	61.5	
Denmark	412	50.3	5.9	0.2	2.6	1.4	0.3	0.3	0.8	4.8	0.0	12.1	1.4	19.7	61.1	56.5	11.7	8.0	53.7	58.0	
France	269	54.0	1.9	0.0	5.4	0.5	0.0	2.2	0.4	0.9	0.0	7.0	1.1	26.6	64.0	55.9	12.6	14.0	57.7	55.6	
Germany	705	34.9	0.7	0.7	4.4	0.8	0.7	0.4	3.1	0.7	0.2	13.1	12.9	27.3	42.8	36.4	21.5	5.8	35.7	38.5	
Greece	116	32.1	2.2	0.0	0.0	0.0	0.0	0.0	4.8	0.0	1.3	2.5	4.2	52.9	34.3	34.3	24.3	28.6	38.5	32.8	
Hungary
Iceland
Israel	232	63.4	5.6	0.4	5.6	0.4	0.4	1.7	2.6	0.4	0.0	6.0	0.4	12.9	77.6	69.4	6.0	6.9	71.3	67.3	
Italy	113	28.8	2.2	0.0	6.5	0.0	0.0	3.9	2.7	1.0	0.1	14.2	1.7	38.8	41.4	31.0	25.4	13.5	22.7	38.0	
Latvia (LSS)
Lithuania	234	63.8	0.0	2.9	5.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	8.2	19.5	71.9	66.8	18.5	0.9	60.2	73.1	
Netherlands
New Zealand
Norway
Russian Federation	449	57.3	0.0	0.8	9.4	1.1	0.2	1.7	0.1	0.1	0.5	8.3	2.1	18.3	70.5	58.1	13.6	4.6	53.6	61.6	
Slovenia	419	38.9	0.0	2.4	0.4	0.0	0.0	1.4	0.8	0.0	0.0	19.7	7.6	28.8	43.1	41.3	20.6	8.2	36.8	46.4	
South Africa
Sweden	252	43.1	6.8	0.0	3.7	0.9	0.0	0.0	0.0	3.0	1.3	10.7	0.9	29.6	54.5	49.9	26.2	3.3	45.6	51.9	
Switzerland	350	52.0	4.1	0.3	3.8	0.7	0.0	1.7	0.7	1.0	0.6	16.4	4.8	13.9	62.6	56.5	11.4	2.6	53.9	59.4	
United States	804	38.7	1.6	0.1	4.9	0.2	0.4	1.1	4.4	4.3	2.6	29.9	2.7	9.2	46.9	40.4	5.0	4.1	36.0	44.4	
INTERNATIONAL AVG	.	47.1	3.2	0.5	4.4	0.6	0.2	1.1	2.2	1.6	0.6	12.4	3.9	22.2	57.1	50.8	15.0	7.1	48.6	54.1	

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