

**Exhibit 11.4: Example Item Statistics for a TIMSS Advanced 2015 Trend Item**

Trends in International Mathematics and Science Study - TIMSS Advanced 2015 Assessment Results - Mathematics  
Trend Achievement Data Almanac for Advanced Mathematics Items (Weighted)

M3\_03 (MA23187): Algebra / Applying Type: CR 2 Points  
Label: New diameter of soup can

COUNTRY	Year	N	20 %	21 %	10 %	11 %	12 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	GIRL PCT RIGHT	BOY PCT RIGHT
Italy	2008	1069	32.1	0.1	5.3	0.0	0.0	0.2	39.3	22.9	0.1	37.5	32.2	27.4	34.6
	2015	1117	31.6	0.0	3.3	6.0	0.0	0.1	35.2	23.6	0.1	41.0	31.6	30.3	32.4
Lebanon	2008	802	42.2	0.1	7.4	0.0	0.0	0.2	34.5	15.6	0.0	49.7	42.4	44.7	41.4
	2015	383	36.5	0.0	10.7	2.1	0.0	0.0	32.0	18.7	0.0	49.3	36.5	31.3	39.5
Norway	2008	966	55.6	0.7	2.7	15.3	0.2	0.5	17.6	7.5	0.0	74.4	56.3	57.7	55.4
	2015	839	50.9	0.3	8.9	14.5	0.0	0.0	17.0	8.3	0.1	74.6	51.2	58.3	47.2
Russian Federation 6hr+	2008	1588	55.8	0.1	8.1	2.0	0.2	0.0	21.5	12.4	0.0	66.0	55.9	54.9	56.6
	2015	1134	54.4	0.6	12.3	0.4	0.1	0.1	20.0	12.1	0.0	67.8	55.0	52.8	57.2
Slovenia	2008	1090	45.2	0.0	16.3	1.6	0.0	0.0	27.5	9.4	0.0	63.1	45.2	45.6	44.8
	2015	983	32.2	0.0	16.4	17.4	0.2	0.0	26.9	7.0	0.0	66.1	32.2	28.9	37.4
Sweden	2008	1144	59.5	0.2	5.2	9.8	0.0	0.2	19.3	5.8	0.1	74.6	59.7	62.1	58.0
	2015	1318	57.4	0.1	8.3	0.7	0.0	0.0	25.1	8.3	0.1	66.5	57.5	63.0	54.1
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International Avg (n=5)		5071	46.9	0.2	7.4	5.3	0.0	0.2	27.7	12.2	0.0	59.9	47.1	47.5	46.9
2015		4640	41.7	0.1	9.5	8.1	0.0	0.0	27.2	13.2	0.1	59.5	41.8	42.4	42.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.  
Because of missing gender information, some totals may appear inconsistent.