

Exhibit M6.5: Students' Sense of School Belonging

Reported by Advanced Mathematics Students

Students were scored according to their agreement to nine statements about their *Sense of School Belonging*. Students with a **High Sense of School Belonging** had a score on the scale of at least 10.6, which corresponds to their "agreeing a lot" to five of the nine statements and "agreeing a little" to each of the other four statements, on average. Students with **Little Sense of School Belonging** had a score no higher than 7.7, which corresponds to their "disagreeing a little" to five of the nine statements and "agreeing a little" to each of the other four statements, on average. All other students had a **Sense of School Belonging**.

Country	High Sense of School Belonging		Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Norway	59 (1.7)	468 (4.6)	38 (1.6)	450 (4.9)	3 (0.4)	420 (13.3)	11.0 (0.08)
Sweden	54 (1.4)	446 (4.1)	41 (1.3)	421 (5.0)	5 (0.6)	366 (9.2)	10.7 (0.06)
Russian Federation	49 (1.6)	494 (6.4)	43 (1.3)	480 (5.9)	8 (0.5)	450 (10.5)	10.6 (0.08)
Russian Federation 6hr+	49 (2.1)	547 (8.5)	43 (1.8)	537 (7.5)	8 (0.8)	517 (15.3)	10.6 (0.11)
United States	46 (2.0)	492 (6.9)	47 (1.8)	485 (5.3)	7 (0.7)	452 (7.6)	10.4 (0.09)
Lebanon	43 (2.1)	542 (4.1)	48 (1.9)	528 (4.3)	9 (1.0)	526 (8.5)	10.2 (0.08)
Portugal	38 (1.3)	489 (3.9)	55 (1.1)	480 (2.8)	7 (0.5)	466 (5.3)	10.1 (0.05)
France	20 (1.2)	479 (4.4)	73 (1.0)	463 (3.0)	7 (0.7)	421 (7.2)	9.4 (0.05)
Italy	16 (1.1)	424 (11.9)	61 (1.2)	427 (5.4)	23 (1.2)	408 (8.7)	8.9 (0.05)
Slovenia	11 (0.9)	493 (6.4)	69 (0.9)	464 (4.0)	20 (0.9)	430 (5.0)	8.8 (0.05)
International Avg.	37 (0.5)	481 (2.1)	53 (0.5)	466 (1.5)	10 (0.3)	438 (2.9)	

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS Advanced 2015

The Russian Federation 6hr+ results are for a subset of the Russian Federation students. This subset of students are in an Intensive stream that have at least 6 hours of mathematics lessons per week.

This TIMSS Advanced questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS Advanced 2015. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

