

Exhibit M6.4: Teacher Job Satisfaction

Reported by Advanced Mathematics Teachers

Students were scored according to how often their teachers responded positively to the seven statements on the *Teacher Job Satisfaction* scale. Students with **Very Satisfied** teachers had a score on the scale of at least 10.5, which corresponds to their teachers responding "very often" to four of the seven statements and responding "often" to the other three, on average. Students with **Less than Satisfied** teachers had a score no higher than 7.2, which corresponds to their teachers responding "sometimes" to four of the seven statements and responding "often" to the other three, on average. All other students had **Satisfied** teachers.

Country	Very Satisfied		Satisfied		Less than Satisfied		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Lebanon	79 (3.5)	534 (3.7)	19 (3.5)	529 (6.8)	2 (0.9)	~ ~	11.4 (0.08)
United States ^r	63 (3.8)	481 (8.0)	32 (3.5)	489 (7.3)	5 (1.3)	493 (14.1)	10.8 (0.15)
Norway	60 (4.8)	473 (6.0)	36 (4.7)	446 (5.6)	4 (1.8)	423 (11.1)	10.6 (0.18)
Russian Federation 6hr+	54 (4.8)	540 (11.7)	44 (4.6)	543 (11.3)	3 (1.2)	556 (59.5)	10.5 (0.13)
Russian Federation	42 (2.9)	505 (7.3)	55 (3.0)	471 (8.4)	3 (1.0)	415 (26.7)	10.1 (0.11)
France	36 (2.9)	465 (4.5)	50 (2.8)	459 (4.3)	14 (2.3)	459 (7.3)	9.6 (0.14)
Portugal	34 (3.3)	486 (4.6)	55 (3.5)	481 (3.8)	12 (2.2)	477 (6.0)	9.6 (0.13)
Slovenia	31 (4.4)	476 (6.4)	56 (4.9)	452 (7.3)	13 (3.2)	453 (11.3)	9.5 (0.18)
Sweden	29 (3.5)	436 (6.4)	60 (4.2)	437 (5.8)	11 (2.3)	423 (9.0)	9.4 (0.14)
Italy	28 (3.1)	417 (11.2)	52 (3.4)	435 (9.1)	20 (2.9)	408 (11.1)	9.1 (0.16)
International Avg.	45 (1.2)	475 (2.3)	46 (1.3)	467 (2.2)	9 (0.7)	444 (4.8)	

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.

A tilde (~) indicates insufficient data to report achievement.

An "r" indicates data are available for at least 70% but less than 85% of the students.

