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Exhibit M8.5: Advanced Mathematics Teachers' Participation in Professional Development in Mathematics in the Past Two Years

Reported by Advanced Mathematics Teachers

Teachers could indicate participating in more than one area of professional development.

	Percent of Students by Teacher's Area of Professional Development						
Country	Mathematics Content	Mathematics Pedagogy/ Instruction	Mathematics Curriculum	Integrating Information Technology into Mathematics	Improving Students' Critical Thinking or Problem Solving Skills	Mathematics Assessment	Addressing Individual Students' Needs
France	33 (3.2)	36 (3.3)	27 (3.0)	32 (3.2)	12 (2.0)	15 (2.9)	12 (2.1)
Italy	41 (4.0)	50 (3.7)	28 (3.3)	48 (3.6)	12 (2.4)	17 (3.1)	19 (3.3)
Lebanon	47 (4.8)	54 (3.4)	41 (4.2)	55 (3.2)	49 (3.4)	50 (3.4)	42 (2.8)
Norway	18 (4.3)	20 (4.3)	26 (3.8)	49 (4.5)	5 (2.3)	28 (4.4)	9 (3.2)
Portugal	77 (2.9)	55 (3.3)	70 (3.2)	56 (3.5)	14 (2.5)	33 (3.1)	10 (2.0)
Russian Federation	73 (2.6)	79 (2.3)	78 (2.4)	71 (2.6)	42 (3.5)	56 (3.2)	49 (3.5)
Russian Federation 6hr+	65 (4.7)	77 (4.4)	68 (4.7)	66 (5.0)	41 (4.5)	54 (5.3)	46 (4.3)
Slovenia	72 (3.0)	39 (4.3)	24 (3.7)	65 (3.2)	38 (3.1)	22 (3.5)	17 (2.8)
Sweden	41 (3.9)	67 (4.0)	38 (4.2)	37 (5.3)	41 (4.4)	66 (4.0)	19 (2.3)
United States	r 66 (3.3)	r 65 (3.4)	r 70 (3.7)	r 56 (3.3)	r 56 (4.2)	r 47 (3.7)	r 53 (4.2)
International Avg.	52 (1.2)	52 (1.2)	45 (1.2)	52 (1.2)	30 (1.1)	37 (1.2)	25 (1.0)

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.

 $(\,)\ {\rm Standard\ errors\ appear\ in\ parentheses.}\ {\rm Because\ of\ rounding\ some\ results\ may\ appear\ in\ consistent.}$

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

