

Exhibit M1.7: Differences in Advanced Mathematics Achievement by Gender Across Assessment Years

Instructions: Read across the row to determine if the performance in the row year is significantly higher (▲) or significantly lower (▼) than the performance in the column year.

Country	Females				Males			
	Percent of Students	Average Scale Score	Differences Between Years		Percent of Students	Average Scale Score	Differences Between Years	
			2008	1995			2008	1995
France								
2015	47 (1.1)	449 (3.1)		-112 ▼	53 (1.1)	475 (3.4)		-100 ▼
1995	37 (2.0)	561 (4.8)			63 (2.0)	575 (4.6)		
Italy								
2015	37 (1.3)	427 (6.1)	-27 ▼	-50 ▼	63 (1.3)	419 (6.6)	-27 ▼	-68 ▼
2008	34 (2.5)	454 (9.5)		-23	66 (2.5)	446 (8.3)		-41 ▼
¹ ‡ 1995	39 (3.8)	477 (12.5)			61 (3.8)	487 (11.6)		
Lebanon								
‡ 2015	36 (2.0)	533 (4.8)	-21 ▼		64 (2.0)	531 (3.9)	-10 ▼	
2008	29 (1.6)	554 (3.1)			71 (1.6)	541 (2.5)		
Norway								
2015	38 (1.4)	453 (5.1)	19 ▲		62 (1.4)	463 (5.2)	21 ▲	
2008	38 (1.7)	434 (5.3)			62 (1.7)	442 (5.6)		
Russian Federation 6hr+								
2015	46 (1.1)	530 (9.0)	-21	4	54 (1.1)	549 (7.5)	-20	-21
2008	45 (1.8)	551 (7.5)		25 ▲	55 (1.8)	569 (7.3)		0
1995	48 (2.4)	526 (9.1)			52 (2.4)	570 (8.7)		
Slovenia								
2015	60 (1.1)	449 (3.5)	1	-20	40 (1.1)	476 (4.9)	4	-10
2008	60 (1.8)	448 (5.3)		-21	40 (1.8)	472 (4.7)		-14
‡ 1995	50 (4.2)	469 (11.4)			50 (4.2)	486 (11.1)		
Sweden								
2015	40 (1.2)	424 (5.1)	20 ▲	-68 ▼	60 (1.2)	436 (4.6)	18 ▲	-70 ▼
2008	40 (2.1)	404 (6.6)		-88 ▼	60 (2.1)	418 (6.5)		-88 ▼
1995	31 (3.5)	492 (4.8)			69 (3.5)	506 (6.9)		
United States								
‡ 2015	49 (0.9)	470 (5.3)		-16	51 (0.9)	500 (6.4)		-7
‡ 1995	47 (3.2)	486 (10.1)			53 (3.2)	507 (7.6)		

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

▲ More recent year significantly higher

▼ More recent year significantly lower

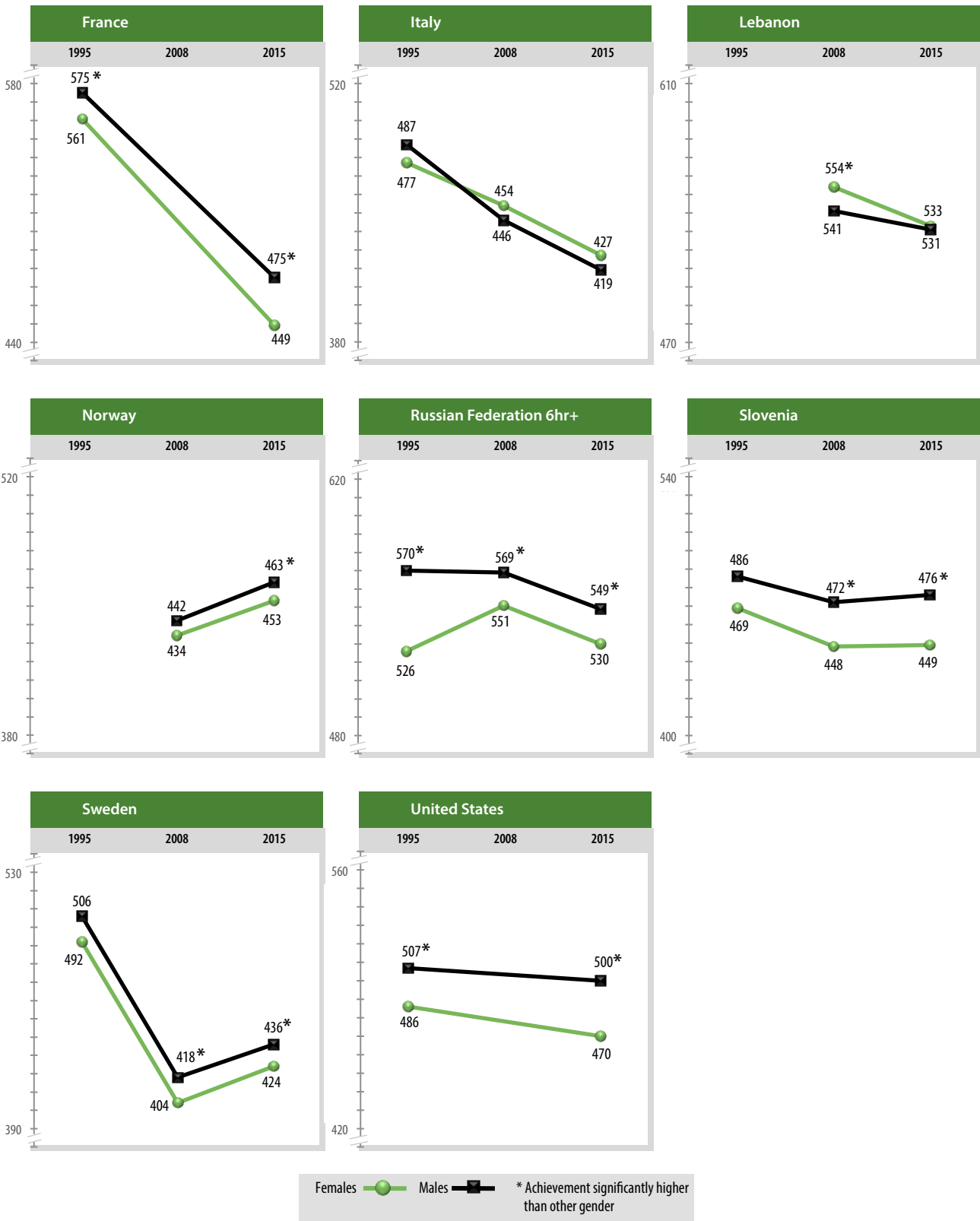
Russian Federation trend results are available only for the Intensive stream students (6hr+). The United States adjusted the 1995 sample to correspond with the course-taking definitions used in 2015, and the 1995 results were recomputed.

See Appendix MC.5 for sampling guidelines and sampling participation notes †, ‡, and §.

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

Exhibit M1.7: Differences in Advanced Mathematics Achievement by Gender Across Assessment Years (Continued)

Trends in Advanced Mathematics Achievement by Gender



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

Russian Federation trend results are available only for the Intensive stream students (6hr+). The United States adjusted the 1995 sample to correspond with the course-taking definitions used in 2015, and the 1995 results were recomputed.

Scale interval is 10 points for each country, but the part of the scale shown differs according to each country's average achievement.