

Exhibit M3.4: Achievement in Advanced Mathematics Cognitive Domains by Gender

Country	Knowing		Applying		Reasoning	
	Females	Males	Females	Males	Females	Males
Russian Federation 6hr+	527 (10.0)	547 (8.6) ▲	535 (9.4)	552 (7.7) ▲	530 (8.1)	550 (7.1) ▲
‡ Lebanon	540 (7.2)	544 (4.4)	534 (5.1)	527 (4.9)	525 (6.1)	527 (4.2)
‡ United States	474 (6.1)	502 (7.0) ▲	468 (5.7)	491 (6.6) ▲	468 (5.7)	501 (6.6) ▲
Russian Federation	474 (7.3)	482 (7.0)	487 (6.7)	495 (6.4)	478 (5.5)	490 (5.9) ▲
† Portugal	480 (3.4)	479 (3.5)	475 (3.4)	476 (3.3)	485 (4.0)	491 (3.9)
France	465 (2.9)	485 (3.3) ▲	434 (3.7)	463 (4.0) ▲	446 (3.6)	477 (3.7) ▲
Slovenia	456 (3.8)	481 (4.9) ▲	455 (3.3)	480 (6.8) ▲	428 (4.9)	464 (5.8) ▲
Norway	439 (5.3)	449 (5.2)	456 (6.4)	461 (5.7)	461 (4.9)	473 (5.2) ▲
Sweden	395 (5.7)	412 (5.3) ▲	429 (4.5)	437 (4.9)	438 (5.5)	453 (4.0) ▲
Italy	431 (5.9)	418 (7.0)	431 (6.3)	422 (6.6)	410 (7.2)	412 (7.4)
International Avg.	461 (1.8)	472 (1.8) ▲	463 (1.7)	472 (1.9) ▲	460 (1.8)	476 (1.8) ▲

▲ Average significantly higher than other gender

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.

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.