

**Exhibit P3.4: Achievement in Physics Cognitive Domains by Gender**

Country	Knowing		Applying		Reasoning	
	Females	Males	Females	Males	Females	Males
Slovenia	492 (8.1)	533 (4.9) ▲	537 (6.7)	546 (4.7)	477 (7.6)	529 (7.1) ▲
Russian Federation	512 (8.8)	520 (7.6)	502 (9.3)	513 (7.7)	476 (8.2)	505 (7.0) ▲
Norway	500 (7.0)	541 (4.5) ▲	475 (7.0)	488 (5.5) ▲	497 (9.4)	528 (5.9) ▲
Portugal	460 (7.6)	479 (5.3) ▲	443 (8.3)	455 (5.8)	467 (6.8)	485 (4.8) ▲
Sweden	438 (6.4)	461 (6.5) ▲	453 (6.6)	455 (7.1)	440 (6.7)	458 (6.5) ▲
‡ United States	401 (13.3)	471 (9.3) ▲	401 (13.0)	433 (9.8) ▲	425 (10.5)	474 (8.9) ▲
‡ Lebanon	385 (7.3)	374 (6.0)	441 (5.5)	427 (7.0)	386 (7.7)	368 (7.6)
Italy	343 (7.2)	388 (7.7) ▲	359 (7.4)	382 (8.8) ▲	353 (7.4)	394 (8.5) ▲
France	347 (4.8)	399 (4.5) ▲	345 (7.1)	369 (5.9) ▲	377 (5.5)	414 (6.0) ▲
International Avg.	431 (2.7)	463 (2.2) ▲	440 (2.7)	452 (2.4) ▲	433 (2.6)	462 (2.3) ▲

▲ Average significantly higher than other gender

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

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

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