

Exhibit 3.10: Achievement in Mathematics Content Domains by Gender

Country	Number		Algebra		Geometry		Data and Chance	
	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
Australia	506 (4.1)	517 (3.5) ▲	492 (4.3)	489 (3.7)	500 (4.0)	500 (3.6)	518 (4.1)	520 (3.6)
Bahrain	437 (3.3)	434 (2.2)	492 (2.2) ▲	474 (3.0)	459 (3.9) ▲	440 (3.7)	462 (3.6) ▲	444 (3.4)
ψ Botswana (9)	404 (3.9) ▲	382 (3.7)	410 (3.0) ▲	389 (2.5)	374 (3.2)	380 (4.0)	386 (3.5) ▲	361 (4.8)
¹ † Canada	532 (2.4)	542 (2.9) ▲	512 (2.2)	514 (2.8)	525 (2.4)	528 (3.2)	532 (2.9)	536 (3.5)
ψ Chile	413 (3.9)	440 (4.1) ▲	411 (3.8)	415 (4.5)	419 (4.7)	435 (4.3) ▲	419 (4.4)	439 (4.9) ▲
Chinese Taipei	585 (2.7)	594 (3.0) ▲	617 (2.8)	610 (3.8)	610 (2.9)	604 (3.3)	586 (3.3)	590 (3.0)
ψ Egypt	394 (5.2)	392 (4.2)	427 (5.6) ▲	412 (5.4)	398 (6.0)	387 (4.6)	344 (6.2)	332 (6.0)
England	524 (5.9)	531 (5.3)	497 (5.8)	488 (5.5)	519 (5.1)	509 (5.0)	544 (5.5)	539 (5.7)
¹ 2 Georgia	453 (3.7)	460 (4.2)	474 (4.6)	464 (4.8)	441 (4.1)	440 (4.8)	422 (4.4)	421 (5.7)
Hong Kong SAR	590 (5.2)	598 (6.3)	593 (4.7)	593 (6.2)	601 (5.2)	602 (6.6)	593 (6.7)	601 (7.1)
Hungary	508 (4.6)	527 (4.5) ▲	503 (4.5)	502 (4.5)	517 (4.8)	520 (4.6)	513 (4.7)	525 (4.4) ▲
ψ Iran, Islamic Rep. of	426 (5.3)	437 (7.6)	447 (6.2)	428 (8.3)	455 (5.5)	441 (7.7)	416 (5.5)	418 (8.4)
Ireland	540 (3.2)	549 (4.7) ▲	502 (2.8)	500 (4.0)	500 (3.1)	507 (4.3)	530 (4.1)	538 (5.1)
³ Israel	510 (4.6)	525 (4.5) ▲	521 (4.9)	513 (5.4)	492 (5.3)	483 (5.3)	499 (5.4)	507 (5.5)
² Italy	484 (3.5)	503 (2.9) ▲	485 (3.4) ▲	478 (3.2)	508 (4.4)	500 (3.6)	491 (3.4)	501 (3.4) ▲
Japan	569 (3.4)	576 (3.4)	601 (3.9) ▲	590 (3.6)	600 (3.9)	595 (3.2)	591 (3.4)	587 (3.5)
⌘ Jordan	381 (4.6)	380 (5.0)	438 (4.2) ▲	397 (5.7)	392 (4.5) ▲	369 (5.4)	353 (5.0)	339 (6.4)
Kazakhstan	516 (5.6)	517 (5.5)	564 (6.0) ▲	546 (5.8)	533 (6.9)	526 (6.7)	493 (6.2)	491 (6.0)
Korea, Rep. of	594 (2.7)	608 (2.9) ▲	616 (3.1) ▲	608 (3.6)	613 (3.4)	611 (4.3)	599 (2.7)	601 (3.2)
ψ Kuwait	392 (4.5)	398 (7.1)	390 (5.2)	379 (7.6)	390 (4.9)	374 (9.0)	385 (5.2) ▲	369 (7.6)
Lebanon	437 (4.4)	444 (5.0)	468 (3.8)	463 (5.1)	442 (4.3)	445 (6.1)	394 (4.9)	397 (6.1)
² Lithuania	506 (3.4)	516 (3.8) ▲	502 (3.9) ▲	493 (4.0)	516 (3.9)	513 (4.2)	517 (3.1)	526 (3.5) ▲
Malaysia	474 (3.9)	469 (3.9)	476 (3.8) ▲	458 (3.6)	457 (4.1)	453 (4.3)	456 (4.5) ▲	447 (4.3)
Malta	498 (2.2)	503 (2.1) ▲	498 (1.8) ▲	487 (2.7)	486 (2.4)	482 (2.6)	488 (3.7)	485 (3.3)
⌘ Morocco	383 (2.4)	382 (2.6)	380 (2.4) ▲	366 (2.8)	407 (3.5)	412 (2.9) ▲	353 (3.1)	354 (3.2)
[†] New Zealand	496 (3.4)	503 (5.1)	479 (3.4)	470 (4.9)	489 (3.2)	488 (4.8)	511 (3.8)	506 (5.0)
Norway (9)	523 (3.1)	534 (2.9) ▲	470 (3.3)	472 (3.3)	500 (3.2)	495 (2.9)	544 (3.6)	541 (4.1)
ψ Oman	397 (3.4) ▲	382 (3.6)	449 (3.6) ▲	406 (3.8)	430 (3.9) ▲	401 (3.9)	395 (4.5) ▲	359 (4.4)
ψ Qatar	430 (3.4)	440 (4.2)	460 (3.2) ▲	444 (4.6)	441 (3.5) ▲	424 (4.5)	421 (4.1)	413 (6.0)
Russian Federation	523 (5.1)	542 (4.4) ▲	559 (5.7)	558 (5.0)	534 (6.3)	537 (5.5)	500 (5.1)	514 (5.5) ▲
⌘ Saudi Arabia	351 (5.0)	353 (7.1)	398 (4.8)	384 (7.0)	353 (6.5) ▲	331 (8.1)	370 (5.5)	352 (7.9)
² Singapore	633 (3.5) ▲	625 (3.8)	630 (3.4) ▲	615 (4.5)	621 (3.7)	613 (4.3)	621 (3.7)	614 (4.2)
Slovenia	516 (2.8)	531 (2.8) ▲	503 (3.5) ▲	494 (2.4)	522 (3.5)	523 (3.4)	525 (3.2)	524 (3.2)
⌘ South Africa (9)	369 (5.7)	368 (4.6)	400 (5.2) ▲	387 (4.1)	366 (5.3)	362 (4.7)	362 (5.9) ▲	351 (5.0)
Sweden	505 (3.2)	520 (3.2) ▲	482 (3.4)	482 (3.9)	479 (4.5)	477 (3.2)	508 (4.1)	516 (4.2) ▲
Thailand	437 (5.5) ▲	423 (5.8)	441 (5.3) ▲	416 (6.4)	438 (5.2) ▲	419 (6.5)	433 (5.4) ▲	415 (5.7)
Turkey	443 (4.7)	452 (5.2) ▲	469 (4.7) ▲	450 (4.9)	472 (4.8) ▲	454 (5.6)	470 (5.5)	464 (6.2)
United Arab Emirates	464 (3.5)	464 (3.8)	495 (3.5) ▲	475 (3.9)	456 (4.1) ▲	439 (4.2)	455 (4.0)	443 (4.7)
[†] United States	515 (3.3)	524 (3.2) ▲	529 (3.3) ▲	521 (3.3)	499 (3.5)	501 (3.3)	520 (3.8)	523 (3.7)
International Avg.	478 (0.7)	484 (0.7) ▲	489 (0.7) ▲	478 (0.7)	481 (0.7) ▲	475 (0.8)	475 (0.7) ▲	472 (0.8)

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

Benchmarking Participants

[†] ⌘ Buenos Aires, Argentina	404 (4.6)	425 (5.1) ▲	373 (6.0)	368 (6.4)	357 (5.5)	360 (6.3)	367 (6.7)	379 (8.1)
Ontario, Canada	526 (3.2)	534 (3.6) ▲	508 (3.2)	507 (3.4)	524 (3.3)	524 (4.1)	531 (4.1)	532 (4.3)
‡ Quebec, Canada	549 (3.9)	566 (5.6) ▲	527 (4.3)	535 (5.5)	535 (4.0)	546 (5.7) ▲	540 (4.9)	553 (6.7) ▲
Norway (8)	500 (2.8)	508 (2.5) ▲	424 (3.4)	422 (3.1)	481 (3.5)	474 (2.7)	523 (3.9)	516 (3.3)
Abu Dhabi, UAE	450 (6.0)	435 (7.3)	479 (6.0) ▲	446 (7.3)	443 (6.6) ▲	408 (8.2)	440 (6.9) ▲	412 (8.9)
Dubai, UAE	501 (3.8)	516 (4.4) ▲	531 (3.9)	526 (4.8)	496 (4.3)	496 (5.0)	501 (4.7)	506 (5.1)
¹ Florida, US	494 (7.5)	501 (6.8)	505 (8.1)	500 (6.6)	469 (8.0)	470 (6.4)	493 (9.3)	486 (8.1)

▲ Average significantly higher than other gender

⌘ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 25%.

ψ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.

See Appendix C.2 for target population coverage notes 1, 2, and 3. See Appendix C.8 for sampling guidelines and sampling participation notes †, ‡, and †.

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