

Exhibit 5.1.8: Teachers Majored in Mathematics and Mathematics Education – Teachers' Reports

About the Index

Major in Mathematics and Mathematics Education: Teachers majored in mathematics and majored in mathematics education

Major in Mathematics But No Major in Mathematics Education: Teachers majored in mathematics but did not major in mathematics education

Major in Mathematics Education but No Major in Mathematics: Teachers did not major in mathematics but majored in mathematics education

All Other Majors: Teachers did not major in mathematics, did not major in mathematics education, but completed post-secondary education (ISCED Level 4) or higher

No Formal Education Beyond Upper-Secondary: Teachers completed no higher than ISCED Level 3

Exhibit 5.1.9: Teachers Majored in Mathematics and Mathematics Education – Teachers’ Reports

Country	Major in Mathematics and Mathematics Education		Major in Mathematics but No Major in Mathematics Education		Major in Mathematics Education but No Major in Mathematics		All Other Majors		No Formal Education Beyond Upper-Secondary		
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	r	46 (3.9)	527 (7.0)	15 (2.7)	506 (9.6)	16 (3.3)	522 (8.6)	24 (3.0)	497 (11.3)	0 ~	~ ~
Austria		19 (2.9)	507 (8.7)	3 (1.2)	477 (21.1)	73 (3.2)	523 (3.1)	5 (1.4)	484 (19.8)	0 ~	~ ~
Azerbaijan		38 (3.6)	483 (5.7)	59 (3.6)	476 (5.9)	0 ~	~ ~	2 ~	~ ~	1 ~	~ ~
Bahrain		44 (3.4)	432 (7.0)	42 (3.8)	419 (4.6)	11 (2.2)	435 (16.7)	3 (0.9)	408 (19.0)	0 ~	~ ~
Brazil		73 (2.8)	382 (3.8)	25 (2.8)	376 (10.6)	0 ~	~ ~	2 ~	~ ~	0 ~	~ ~
Chile		68 (3.7)	422 (4.2)	22 (3.9)	405 (9.0)	1 ~	~ ~	10 (2.7)	404 (13.2)	0 ~	~ ~
Chinese Taipei		41 (3.5)	609 (5.1)	39 (3.5)	612 (5.7)	7 (1.8)	583 (9.6)	13 (2.2)	566 (8.7)	0 ~	~ ~
Cote d'Ivoire		49 (4.3)	257 (3.7)	30 (3.7)	276 (11.0)	5 (1.8)	318 (31.4)	12 (3.0)	249 (6.5)	5 (1.8)	247 (6.0)
Cyprus		28 (2.6)	499 (5.5)	71 (2.6)	491 (3.7)	0 ~	~ ~	1 ~	~ ~	0 ~	~ ~
Czech Republic		4 (1.5)	516 (21.7)	14 (2.3)	524 (5.4)	70 (2.7)	519 (3.3)	11 (2.0)	508 (8.7)	1 ~	~ ~
England	s	45 (5.3)	519 (9.3)	30 (4.9)	520 (13.6)	7 (2.4)	503 (16.1)	13 (3.4)	519 (16.3)	5 (2.2)	542 (46.4)
Finland		15 (2.1)	514 (5.7)	55 (3.0)	509 (3.4)	1 ~	~ ~	26 (2.5)	493 (5.2)	4 (1.1)	483 (12.7)
France		41 (3.6)	476 (5.6)	48 (3.6)	487 (4.5)	0 ~	~ ~	11 (2.7)	467 (12.9)	0 ~	~ ~
Georgia		59 (3.6)	466 (4.1)	34 (3.3)	469 (5.9)	3 (1.4)	435 (12.3)	4 (1.6)	496 (29.8)	0 ~	~ ~
Hong Kong SAR	r	52 (4.2)	582 (10.2)	13 (2.5)	584 (13.9)	13 (2.8)	583 (17.1)	22 (3.5)	554 (15.4)	0 ~	~ ~
Hungary		10 (1.8)	514 (9.8)	9 (1.7)	469 (15.8)	74 (2.9)	513 (4.5)	6 (1.5)	467 (21.4)	0 ~	~ ~
Iran, Islamic Rep. of		42 (3.2)	425 (5.1)	37 (2.9)	433 (5.9)	8 (1.8)	417 (12.8)	12 (2.3)	391 (13.3)	1 ~	~ ~
Ireland		51 (3.2)	524 (4.3)	29 (2.6)	526 (6.1)	9 (1.8)	524 (7.1)	11 (1.7)	518 (8.4)	0 ~	~ ~
Israel		59 (2.7)	485 (6.7)	26 (2.4)	488 (9.3)	9 (1.7)	509 (15.6)	5 (1.1)	479 (13.9)	1 ~	~ ~
Italy		31 (3.5)	502 (5.7)	15 (2.3)	493 (6.7)	7 (1.7)	506 (6.8)	45 (4.0)	502 (4.9)	2 ~	~ ~
Japan		49 (4.0)	592 (3.3)	32 (3.8)	596 (5.5)	9 (2.1)	586 (5.8)	10 (2.8)	612 (18.1)	0 ~	~ ~
Jordan		30 (3.9)	394 (7.5)	62 (4.2)	386 (4.8)	2 ~	~ ~	2 ~	~ ~	4 (1.5)	383 (10.4)
Kazakhstan		62 (3.4)	455 (4.7)	35 (3.5)	452 (6.8)	1 ~	~ ~	1 ~	~ ~	1 ~	~ ~
Korea, Rep. of		19 (3.2)	589 (8.6)	37 (3.9)	600 (4.9)	43 (4.1)	597 (4.3)	1 ~	~ ~	0 ~	~ ~
Kuwait		25 (3.6)	427 (15.8)	49 (4.4)	386 (6.9)	22 (3.5)	386 (7.8)	3 (1.6)	444 (32.3)	0 ~	~ ~
Lithuania		51 (3.9)	522 (4.7)	39 (3.4)	504 (5.7)	7 (1.7)	510 (11.2)	4 (1.5)	523 (26.2)	1 ~	~ ~
Malaysia		30 (3.0)	421 (6.6)	29 (2.8)	412 (6.8)	17 (2.2)	406 (9.2)	24 (2.9)	400 (6.9)	0 ~	~ ~
Malta		62 (0.1)	500 (1.5)	27 (0.1)	502 (2.5)	4 (0.1)	515 (6.3)	3 (0.1)	530 (8.5)	3 (0.1)	482 (5.7)
Morocco		14 (2.3)	371 (6.9)	60 (3.4)	381 (4.4)	2 ~	~ ~	18 (2.6)	373 (6.9)	7 (1.9)	378 (15.0)
Norway (9)	r	27 (3.5)	504 (4.5)	60 (3.9)	503 (3.0)	2 ~	~ ~	10 (2.3)	498 (7.2)	0 ~	~ ~
Oman		46 (3.3)	417 (5.0)	39 (3.1)	406 (4.3)	14 (2.1)	407 (7.7)	0 ~	~ ~	1 ~	~ ~
Palestinian Nat'l Auth.		32 (3.0)	389 (6.1)	40 (3.2)	378 (4.4)	22 (2.8)	384 (5.4)	4 (1.4)	387 (20.0)	3 (1.1)	372 (15.0)
Portugal		80 (3.0)	477 (3.0)	18 (2.8)	476 (9.3)	1 ~	~ ~	1 ~	~ ~	0 ~	~ ~
Qatar		48 (5.2)	457 (7.9)	39 (5.1)	453 (8.6)	9 (2.7)	403 (14.3)	2 ~	~ ~	2 ~	~ ~
Romania	r	56 (5.1)	504 (8.3)	42 (5.1)	497 (7.6)	0 ~	~ ~	1 ~	~ ~	0 ~	~ ~
Saudi Arabia		23 (2.8)	406 (8.5)	63 (3.4)	394 (4.7)	11 (2.1)	390 (9.2)	3 (1.2)	415 (27.8)	0 ~	~ ~
Singapore		57 (3.6)	602 (8.2)	30 (3.3)	611 (9.7)	3 (1.1)	590 (17.1)	10 (2.1)	613 (16.2)	0 ~	~ ~
Sweden		56 (4.3)	518 (3.6)	16 (2.8)	511 (6.4)	21 (3.5)	521 (6.0)	4 (1.5)	505 (11.6)	2 ~	~ ~
Türkiye		54 (3.4)	501 (6.3)	22 (3.2)	539 (12.5)	23 (3.4)	500 (10.8)	1 ~	~ ~	0 ~	~ ~
United Arab Emirates		48 (1.4)	504 (3.1)	41 (1.5)	468 (3.7)	5 (0.7)	476 (9.9)	5 (0.7)	452 (10.8)	1 ~	~ ~
United States		33 (2.5)	497 (6.3)	13 (1.9)	499 (12.7)	20 (2.8)	491 (9.9)	34 (3.5)	479 (8.3)	0 ~	~ ~
Uzbekistan		44 (4.2)	423 (7.6)	49 (4.2)	419 (5.1)	4 (1.5)	429 (13.5)	2 ~	~ ~	2 ~	~ ~
International Average		42 (0.5)	479 (1.1)	35 (0.5)	474 (1.3)	13 (0.3)	483 (2.2)	9 (0.3)	474 (2.9)	1 (0.1)	412 (7.7)
South Africa (9)	y	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
Benchmarking Participants											
Abu Dhabi, UAE		45 (2.4)	459 (4.2)	40 (2.7)	443 (5.8)	5 (1.4)	451 (14.1)	9 (1.7)	429 (13.6)	1 ~	~ ~
Dubai, UAE		62 (3.1)	557 (4.4)	30 (3.0)	531 (10.5)	3 (1.2)	548 (20.7)	3 (1.0)	533 (14.4)	0 ~	~ ~
Sharjah, UAE		43 (3.5)	509 (6.2)	49 (4.0)	482 (6.5)	4 (1.6)	453 (20.3)	2 ~	~ ~	2 ~	~ ~

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.
 An "r" indicates data are available for at least 70% but less than 85% of the students.
 An "s" indicates data are available for at least 50% but less than 70% of the students.
 A "y" indicates data are available for less than 40% of the students.
 A dash (-) indicates comparable data not available. A tilde (~) indicates insufficient data to report result.