

Exhibit M4.4: Students' Expectations for Further Education

Reported by Advanced Mathematics Students

| Doctoral Degree | | Master's Degree | | Bachelor's Degree | | Post-Secondary Education but Not Bachelor's Degree | | Upper-Secondary Education | |
|------------------------|--|--|--|--|---|---|--|---|--|
| Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievemen |
| 58 (2.1) | 538 (3.9) | 35 (2.0) | 530 (4.3) | 4 (0.6) | 515 (9.5) | 2 (0.3) | ~ ~ | 1 (0.4) | ~ ~ |
| 24 (0.9) | 504 (3.2) | 47 (0.9) | 495 (3.0) | 23 (0.8) | 450 (4.1) | 3 (0.3) | 430 (8.2) | 3 (0.4) | 408 (8.2) |
| 23 (1.1) | 478 (11.3) | 49 (1.2) | 494 (5.2) | 27 (1.3) | 477 (6.5) | 0 (0.1) | ~ ~ | 0 (0.1) | ~ ~ |
| 21 (0.8) | 476 (3.9) | 54 (1.0) | 475 (3.3) | 13 (0.8) | 433 (4.9) | 11 (0.6) | 421 (4.2) | 2 (0.4) | ~ ~ |
| 18 (1.5) | 499 (6.3) | 48 (1.0) | 469 (3.2) | 22 (1.1) | 434 (5.0) | 12 (0.9) | 416 (6.7) | 1 (0.2) | ~ ~ |
| 14 (0.7) | 464 (7.1) | 19 (0.9) | 434 (6.5) | 41 (1.1) | 442 (5.6) | 15 (0.9) | 378 (8.5) | 11 (1.0) | 337 (16.6 |
| 12 (1.4) | 586 (10.4) | 62 (1.1) | 545 (6.7) | 25 (1.2) | 512 (11.1) | 1 (0.3) | ~ ~ | 0 (0.1) | ~ ~ |
| 9 (0.7) | 455 (8.4) | 61 (1.1) | 451 (4.1) | 26 (1.1) | 391 (4.9) | 4 (0.5) | 375 (9.8) | 0 (0.1) | ~ ~ |
| 8 (0.6) | 529 (9.9) | 58 (1.1) | 492 (5.4) | 31 (1.0) | 467 (7.3) | 2 (0.3) | ~ ~ | 1 (0.3) | ~ ~ |
| 8 (0.8) | 495 (5.6) | 70 (1.7) | 469 (4.8) | 20 (1.5) | 419 (4.7) | 1 (0.4) | ~ ~ | 1 (0.2) | ~ ~ |
| 20 (0.4) | 493 (2.4) | 49 (0.4) | 479 (1.5) | 23 (0.4) | 448 (2.0) | 6 (0.2) | 404 (3.4) | 2 (0.1) | 373 (9.2) |
| | Percent of Students 58 (2.1) 24 (0.9) 23 (1.1) (21 (0.8) 18 (1.5) 14 (0.7) 12 (1.4) 9 (0.7) 8 (0.6) 8 (0.8) | Percent of Students Average Achievement 58 (2.1) 538 (3.9) 24 (0.9) 504 (3.2) 23 (1.1) 478 (11.3) 21 (0.8) 476 (3.9) 18 (1.5) 499 (6.3) 14 (0.7) 464 (7.1) 12 (1.4) 586 (10.4) 9 (0.7) 455 (8.4) 8 (0.6) 529 (9.9) 8 (0.8) 495 (5.6) | Percent of Students Average Achievement Percent of Students 58 (2.1) 538 (3.9) 35 (2.0) 24 (0.9) 504 (3.2) 47 (0.9) 23 (1.1) 478 (11.3) 49 (1.2) 23 (1.1) 476 (3.9) 54 (1.0) 12 (10.8) 476 (3.9) 54 (1.0) 18 (1.5) 499 (6.3) 48 (1.0) 14 (0.7) 464 (7.1) 19 (0.9) 12 (1.4) 586 (10.4) 62 (1.1) 9 (0.7) 455 (8.4) 61 (1.1) 8 (0.6) 529 (9.9) 58 (1.0) 8 (0.8) 495 (5.6) 70 (1.7) | Percent of Students Average Achievement Percent of Students Average Achievement 58 (2.1) 538 (3.9) 35 (2.0) 530 (4.3) 24 (0.9) 504 (3.2) 47 (0.9) 495 (3.0) 23 (1.1) 478 (11.3) 49 (1.2) 494 (5.2) 21 (0.8) 476 (3.9) 54 (1.0) 475 (3.3) 18 (1.5) 499 (6.3) 48 (1.0) 469 (3.2) 14 (0.7) 464 (7.1) 19 (0.9) 434 (6.5) 12 (1.4) 586 (10.4) 62 (1.1) 545 (6.7) 9 (0.7) 455 (8.4) 61 (1.1) 492 (5.4) 8 (0.6) 529 (9.9) 58 (1.1) 492 (5.4) 8 (0.8) 495 (5.6) 70 (1.7) 469 (4.8) | Percent of Students Average Achievement Percent of Students Average Achievement Percent of Students Percent Achievement Percent of Students 58 (2.1) 538 (3.9) 35 (2.0) 530 (4.3) 4 (0.6) 24 (0.9) 504 (3.2) 47 (0.9) 495 (3.0) 23 (0.8) 23 (1.1) 478 (11.3) 49 (1.2) 494 (5.2) 27 (1.3) 21 (0.8) 476 (3.9) 54 (1.0) 475 (3.3) 13 (0.8) 18 (1.5) 499 (6.3) 48 (1.0) 469 (3.2) 22 (1.1) 14 (0.7) 464 (7.1) 19 (0.9) 434 (6.5) 441 (1.1) 12 (1.4) 586 (10.4) 62 (1.1) 545 (6.7) 25 (1.2) 9 (0.7) 455 (8.4) 61 (1.1) 451 (4.1) 26 (1.1) 8 (0.6) 529 (9.9) 58 (1.1) 469 (4.8) 31 (1.0) 8 (0.8) 495 (5.6) 70 (1.7) 469 (4.8) 20 (1.5) | Percent of Students Average Achievement Percent of Students Average Achievement Percent of Students Average Achievement Average of Students Average Achievement 58 (2.1) 538 (3.9) 35 (2.0) 530 (4.3) 4 (0.6) 515 (9.5) 24 (0.9) 504 (3.2) 47 (0.9) 495 (3.0) 23 (0.8) 450 (4.1) 23 (1.1) 478 (11.3) 49 (1.2) 494 (5.2) 27 (1.3) 477 (6.5) 21 (0.8) 476 (3.9) 54 (1.0) 475 (3.3) 13 (0.8) 433 (4.9) 18 (1.5) 499 (6.3) 48 (1.0) 469 (3.2) 22 (1.1) 434 (5.0) 14 (0.7) 464 (7.1) 19 (0.9) 434 (6.5) 411 (1.1) 442 (5.6) 12 (1.4) 586 (10.4) 62 (1.1) 545 (6.7) 25 (1.2) 512 (11.1) 9 (0.7) 455 (8.4) 61 (1.1) 451 (4.1) 26 (1.1) 391 (4.9) 8 (0.6) 529 (9.9) 58 (1.1) 469 (4.8) 20 (1.5) 419 (4.7) | Doctoral Degree Master's Degree Bachelor's Degree but Not Bachelor's Degree Percent of Students Average Achievement Percent of Students Average Achievement Percent of Students Average Achievement Percent of Students Average Achievement Percent of Students 58 (2.1) 538 (3.9) 35 (2.0) 530 (4.3) 4 (0.6) 515 (9.5) 2 (0.3) 24 (0.9) 504 (3.2) 47 (0.9) 495 (3.0) 23 (0.8) 450 (4.1) 3 (0.3) 23 (1.1) 478 (11.3) 49 (1.2) 494 (5.2) 27 (1.3) 477 (6.5) 0 (0.1) 21 (0.8) 476 (3.9) 54 (1.0) 469 (3.2) 22 (1.1) 434 (5.0) 12 (0.9) 18 (1.5) 499 (6.3) 48 (1.0) 469 (3.2) 22 (1.1) 434 (5.0) 12 (0.9) 14 (0.7) 464 (7.1) 19 (0.9) 434 (6.5) 41 (1.1) 442 (5.6) 15 (0.9) 12 (1.4) 586 (10.4) 62 (1.1) 545 (6.7) 25 (1.2) 512 (1.1) 1 (0.3) 9 (0.7) 455 (8.4) 61 (1.1) 451 (| Doctoral Degree Master's Degree Bachelor's Degree but Not Bachelor's Degree Percent of Students Average Achievement Percent Achievement Average Achievement Average Ac | Doctoral Degree Master's Degree Bachelor's Degree but Not Bachelor's Degree Educ Percent of Students Average Achievement Percent of Students Percent Achievement Average Achievement Percent of Students Average Achievement Percent of Students Percent Achievement |

Students' Expectations for Further Education by Gender

Reported by Advanced Mathematics Students

| Country | Doctoral Degree | | Master's Degree | | Bachelor's Degree | | Post-Secondary Education but Not Bachelor's Degree | | Upper-Secondary Education | |
|-------------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|---|---------------------|------------------------------|---------------------|
| | Percent of Females | Percent of Males | Percent of Females | Percent of Males | Percent of Females | Percent of Males | Percent of Females | Percent of Males | Percent of Females | Percent of Males |
| Lebanon | 65 (3.7) 🗅 | 54 (2.3) | 32 (3.6) | 37 (2.2) | 3 (0.8) | 5 (0.7) 🗅 | 0 (0.2) | 2 (0.5) 🛆 | 0 (0.2) | 2 (0.6) |
| Portugal | 27 (1.3) 🗅 | 21 (1.3) | 49 (1.3) 🗅 | 45 (1.2) | 21 (1.1) | 27 (1.2) 🗅 | 1 (0.2) | 4 (0.7) 🛇 | 2 (0.4) | 3 (0.6) |
| United States | 25 (2.1) | 21 (1.6) | 51 (2.1) | 48 (2.9) | 24 (1.6) | 30 (2.2) 🗅 | 0 (0.1) | 0 (0.2) | 0 (0.1) | 0 (0.1) |
| France | 26 (1.2) | 16 (1.0) | 47 (1.3) | 60 (1.2) | 13 (1.0) | 13 (1.0) | 12 (1.0) 🗅 | 9 (0.8) | 1 (0.4) | 2 (0.4) |
| Slovenia | 17 (1.6) | 19 (1.7) | 53 (1.5) 🗅 | 40 (1.4) | 21 (1.4) | 24 (1.4) | 9 (1.2) | 16 (1.3) 🗅 | 0 (0.3) | 1 (0.3) |
| Italy | 13 (1.2) | 14 (0.9) | 26 (1.4) 🗅 | 15 (1.0) | 44 (1.6) 🗅 | 38 (1.5) | 14 (1.4) | 16 (1.2) | 3 (0.4) | 17 (1.6) |
| Russian Federation 6hr+ | 10 (1.0) | 15 (2.0) 🗅 | 64 (1.5) | 60 (1.9) | 26 (1.7) | 24 (1.3) | 1 (0.3) | 1 (0.3) | 0 (0.1) | 0 (0.1) |
| Sweden | 10 (1.1) 🗅 | 7 (0.6) | 63 (1.6) | 59 (1.4) | 25 (1.5) | 27 (1.3) | 2 (0.4) | 6 (0.6) 🗅 | 0 (0.1) | 1 (0.2) |
| Russian Federation | 7 (0.7) | 9 (0.8) 🗅 | 59 (1.4) | 57 (1.2) | 31 (1.2) | 30 (1.2) | 2 (0.7) | 2 (0.4) | 1 (0.3) | 1 (0.4) |
| Norway | 8 (0.8) | 8 (1.1) | 75 (1.6) 🗅 | 67 (2.1) | 17 (1.5) | 22 (2.0) | 0 (0.2) | 2 (0.5) 🔿 | 0 (0.2) | 1 (0.3) |
| International Avg. | 22 (0.6) 🛆 | 19 (0.5) | 50 (0.6) 🛆 | 47 (0.6) | 22 (0.4) | 24 (0.5) 🗅 | 5 (0.3) | 6 (0.3) 🛆 | 1 (0.1) | 3 (0.2) |

O Percent significantly higher than other gender

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.

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

A tilde (~) indicates insufficient data to report achievement.

