## and Education

Reported by Advanced Mathematics Teachers

| 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 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |
| France | 32 (2.7) | 465 (4.1) | 68 (2.7) | 460 (3.9) | 0 (0.4) | $\sim$ | 0 (0.2) | ~ |
| Italy | 49 (4.1) | 417 (10.9) | 41 (3.8) | 444 (8.7) | 1 (0.6) | $\sim \sim$ | 9 (1.9) | 379 (17.6) |
| Lebanon | 61 (4.1) | 534 (4.6) | 33 (2.5) | 538 (5.1) | 1 (0.6) | ~ ~ | 5 (4.2) | 514 (14.0) |
| Norway | 18 (3.5) | 466 (11.4) | 80 (3.7) | 461 (4.0) | 0 (0.0) | ~ | 2 (1.3) | $\sim \sim$ |
| Portugal | 76 (3.1) | 480 (3.4) | 19 (2.6) | 489 (5.3) | 3 (1.2) | 496 (8.1) | 2 (1.0) | $\sim \sim$ |
| Russian Federation | 60 (3.8) | 492 (7.7) | 39 (3.8) | 468 (7.7) | 0 (0.0) | ~ | 1 (0.5) | ~ |
| Russian Federation 6hr+ | 69 (5.1) | 555 (8.3) | 30 (5.0) | 505 (16.6) | 0 (0.0) | $\sim$ | 1 (0.5) | $\sim$ |
| Slovenia | 56 (4.3) | 465 (4.7) | 29 (3.5) | 452 (8.4) | 13 (2.6) | 458 (7.1) | 2 (0.6) | ~ |
| Sweden | 71 (3.7) | 440 (4.8) | 20 (3.0) | 426 (7.2) | 7 (2.0) | 437 (9.5) | 2 (0.9) | $\sim$ |
| United States r | 58 (3.2) | 478 (8.2) | 22 (2.7) | 500 (8.6) | 11 (1.9) | 497 (13.6) | 9 (1.0) | 482 (8.7) |
| International Avg. | 53 (1.2) | 471 (2.4) | 39 (1.1) | 471 (2.3) | 4 (0.5) | 472 (4.9) | 4 (0.6) | 458 (8.0) |

[^0]
[^0]:    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.
    An" $r$ " indicates data are available for at least $70 \%$ but less than $85 \%$ of the students.

