

Math Refresher Practice Questions

**Take our quick test to see if you're ready to take the GRE or GMAT prep course. If you are comfortable with all of these math questions, you are ready to begin studying for the GRE. If not, take our Math Refresher before taking your GRE or GMAT prep course.*

1. 17 is 25% of what number?

2. Simplify: $(\frac{4}{5} + \frac{1}{4})x \frac{5}{12}$

3. Simplify: $(\sqrt{100})(\sqrt{12})$

4. Simplify: $(3a^6b^5)(5a^2bc^3)$

5. List the factors of 120.

6. When $x = 6$, $x^2 + 3x - 4 =$

7. Solve for m : $(\frac{m-2}{3}) + 1 = \frac{2m}{7}$

8. Multiply: $(4x + 3)(7x - 5)$

9. What are the solutions of x ,
given $9x^2 + 3x - 2$?

10. Multiply: $(x + 3)(2x^2 + 10x + 1)$

11. What is the square root of $\sqrt{2025}$?

12. $6.24 \div 0.026 =$

13. List the prime numbers up to 20.

14. Convert 65% to a decimal and a fraction.

15. 30% of 80 is what percent of 2400?

16. $\frac{7}{20} \div \frac{3}{5}$

17. $(\frac{1}{3})^3$

18. Which is bigger: $|4|$ or $|-5|$?

19. If $3x + 13y = 23$ and $7x - 3y = 12$,
what does $10x + 10y$ equal?

20. If $-\frac{1}{2}x + 5 = 8$

what is the value of $3x + 5$?

Math Refresher Practice Answers

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|-----|---|-----|---|
| 1. | 68 | 11. | 45 |
| 2. | $\frac{7}{16}$ | 12. | 240 |
| 3. | $20\sqrt{3}$ | 13. | 2, 3, 5, 7, 11, 13, 17, 19 |
| 4. | $15a^8b^6c^3$ | 14. | .65 and $\frac{65}{100}$ or $\frac{13}{20}$ |
| 5. | 1, 2, 3, 4, 5, 6, 8, 10, 12,
15, 20, 24, 30, 40, 60, 120 | 15. | 1% |
| 6. | 50 | 16. | $\frac{35}{60}$ or $\frac{7}{12}$ |
| 7. | $m = -7$ | 17. | $\frac{1}{27}$ |
| 8. | $28x^2 + x - 15$ | 18. | $ -5 $ |
| 9. | $x = \frac{1}{3}, x = -\frac{2}{3}$ | 19. | 35 |
| 10. | $2x^3 + 16x^2 + 31x + 3$ | 20. | -13 |

Scoring Rubric

- Students who answer 16 or more problems correctly are likely to do well on the GRE/GMAT prep course (no Math Refresher prep course required).
- Students who answer 5 or more questions incorrectly should consider enrolling in a Math Refresher prep course.