

2010 MathEdge Speed Contest Advanced (Grades 6-8) - 15mins

1. $2007 + 2008 =$ _____ .
2. $54 \times 11 =$ _____ .
3. $3 \times 4 \div 6 =$ _____ .
4. $33 \times 12 + 33 \times 18 =$ _____ .
5. $\frac{2}{3} - \frac{2}{9} =$ _____ .
6. $15.5 - 1.55 =$ _____ (decimal).
7. $17 + 27 + 37 =$ _____ .
8. $12^2 =$ _____ .
9. $70 \times 60 \times 50 =$ _____ .
10. $96 + 643 + 825 =$ _____ .
11. $\frac{7}{5} + \frac{5}{7} =$ _____ (mixed number).
12. Find the remainder when 6499 is divided by 3.
_____ .
13. $14 \times 16 =$ _____ .
14. $6\frac{1}{4}\% =$ _____ (fraction).
15. $3\frac{3}{4} - 2\frac{1}{8} =$ _____ (mixed number).
16. $88 \times 12 =$ _____ .
17. 4% of 600 = _____ .
18. $5^3 =$ _____ .
19. The number 22 has how many positive integral divisors? _____ .
20. $667 \times 751 =$ _____ .
21. $.7777\dots =$ _____ (fraction).
22. Find the sum of the roots of $x^2 - 8x + 4 = 0$.
_____ .
23. 3 quarts is what percent of a gallon? _____ %.
24. $13_7 =$ _____ $_{10}$.
25. $21^2 + 7^2 =$ _____ .
26. The cube root of -729 is _____ .
27. $\frac{16}{25} =$ _____ (decimal).
28. If 3 pencils cost $42¢$, then 5 pencils cost \$ _____ .
29. $25 \times 448 =$ _____ .
30. $1 + 2 + 3 + 4 + \dots + 10 =$ _____ .
31. $73^2 - 74^2 =$ _____ .
32. $97 \times 96 =$ _____ .
33. $3\frac{3}{4} \times 3\frac{1}{4} =$ _____ (mixed number).
34. The set $\{M, I, N, U, S\}$ has _____ elements.
35. A square with sides measuring 4 inches has an area of _____ in^2 .
36. Find the sales tax on a purchase that costs \$27.00 with 3% tax. \$ _____ .
37. $32 \times 8 \div 16 =$ _____ .
38. 1 square foot = _____ square inches.
39. $4.8 \times 5.2 =$ _____ (decimal).

A Name _____ Date _____ Score _____

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40. $704032 \div 193 =$ _____ .

41. $\sqrt{20} \times \sqrt{5} =$ _____ .

42. If $f(x) = 3x - 4$, then $f(1) =$ _____ .

43. Find the LCM of 14 and 21. _____ .

44. $15 \times 48 =$ _____ .

45. $6 \div .25 =$ _____ .

46. $97 \times 93 + 4 =$ _____ .

47. $36 + 18 + 1 =$ _____ (base 6).

48. $46 \times 46 =$ _____ .

49. The next term in the sequence 9, 16, 25, 36, ... is
_____ .

50. $25 \times 49 \times 121 =$ _____ .

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1. $2007 + 2008 =$ 4015.
2. $54 \times 11 =$ 594.
3. $3 \times 4 \div 6 =$ 2.
4. $33 \times 12 + 33 \times 18 =$ 990.
5. $\frac{2}{3} - \frac{2}{9} =$ 4/9.
6. $15.5 - 1.55 =$ 13.95 (decimal).
7. $17 + 27 + 37 =$ 81.
8. $12^2 =$ 144.
9. $70 \times 60 \times 50 =$ 210,000.
10. $96 + 643 + 825 =$ 1564.
11. $\frac{7}{5} + \frac{5}{7} =$ $2\frac{4}{35}$ (mixed number).
12. Find the remainder when 6499 is divided by 3.
1
13. $14 \times 16 =$ 224.
14. $6\frac{1}{4}\% =$ 1/16 (fraction).
15. $3\frac{3}{4} - 2\frac{1}{8} =$ 1 5/8 (mixed number).
16. $88 \times 12 =$ 1056.
17. 4% of 600 = 24.
18. $5^3 =$ 125.
19. The number 22 has how many positive integral divisors? 4.
20. $667 \times 751 =$ 500917.
21. $.7777\dots =$ 7/9 (fraction).
22. Find the sum of the roots of $x^2 - 8x + 4 = 0$.
8
23. 3 quarts is what percent of a gallon? 75%.
24. $13_7 =$ 10 ₁₀.
25. $21^2 + 7^2 =$ 490.
26. The cube root of -729 is -9.
27. $\frac{16}{25} =$ 0.64 (decimal).
28. If 3 pencils cost 42¢, then 5 pencils cost \$.70.
29. $25 \times 448 =$ 11200.
30. $1 + 2 + 3 + 4 + \dots + 10 =$ 55.
31. $73^2 - 74^2 =$ -147.
32. $97 \times 96 =$ 9312.
33. $3\frac{3}{4} \times 3\frac{1}{4} =$ 12 3/16 (mixed number).
34. The set $\{M, I, N, U, S\}$ has 5 elements.
35. A square with sides measuring 4 inches has an area of 16 in².
36. Find the sales tax on a purchase that costs \$27.00 with 3% tax. \$ 0.81.
37. $32 \times 8 \div 16 =$ 16.
38. 1 square foot = 144 square inches.
39. $4.8 \times 5.2 =$ 24.96 (decimal).

A Name **ANSWER** Date _____ Score _____

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40. $704032 \div 193 =$ 3647.83 .

41. $\sqrt{20} \times \sqrt{5} =$ 10 .

42. If $f(x) = 3x - 4$, then $f(1) =$ -1 .

43. Find the LCM of 14 and 21. 42 .

44. $15 \times 48 =$ 720 .

45. $6 \div .25 =$ 24 .

46. $97 \times 93 + 4 =$ 9025 .

47. $36 + 18 + 1 =$ 131 (base 6).

48. $46 \times 46 =$ 2116 .

49. The next term in the sequence 9, 16, 25, 36, ... is
49 .

50. $25 \times 49 \times 121 =$ 148225 .