

1. $52 \times 11 =$ _____.
2. $2005 - 1985 =$ _____.
3. $38 \times 82 + 38 \times 18 =$ _____.
4. $13.9 \times 100 =$ _____.
5. $205 \times 16 =$ _____.
6. $147 - 741 =$ _____.
7. XLII = _____ (Arabic numerals).
8. $5 \times 6 \div 15 =$ _____.
9. 48 pints = _____ gallons.
- (*) 10. $63 + 389 + 213 + 413 - 74 =$ _____.
11. $14 \times 3\frac{1}{2} =$ _____.
12. $1\frac{1}{4} \times 11\frac{1}{4} =$ _____ (mixed number).
13. $15 \times 18 =$ _____.
14. $1 + 2 \times 3 + 4 \times 5 =$ _____.
15. Find the LCM of 12 and 18. _____.
16. $2 + 4 + 6 + 8 + \dots + 18 =$ _____.
17. $22 \times 28 =$ _____.
18. 30% of 30 is _____.
19. $\frac{19}{20} =$ _____ %.
- (*) 20. $813 \times 799 =$ _____.
21. $25 \times 36 =$ _____.
22. $56^2 =$ _____.
23. The average of 16, 12, and 11 is _____.
24. $.393939\dots =$ _____ (fraction).
25. The area of a rectangle whose length is 12 and whose width is 11 is _____.
26. $95 \times 94 =$ _____.
27. If 6 markers cost \$1.08, then $1\frac{1}{2}$ dozen markers cost \$ _____.
28. $\frac{1}{40} =$ _____ (decimal).
29. $63 \times 143 =$ _____.
- (*) 30. $65432 \div 109 =$ _____.
31. How many positive numbers less than or equal to 11 are relatively prime to 11? _____.
32. Find the area of a triangle whose base is 29 and whose height is 62. _____.
33. How many subsets does $\{P, Q\}$ have? _____.
34. The y -intercept of the line $y = 7x - 8$ is _____.
35. $71^2 - 70^2 =$ _____.
36. $111 \times 53 =$ _____.
37. $4^3 =$ _____.
38. The diagonal of a square is $24\sqrt{2}$. What is the length of its side? _____.
39. $9^2 + 12^2 =$ _____.
- (*) 40. $\sqrt{889737} =$ _____.
41. The midpoint of a segment whose endpoints are $(-5, -1)$ and (x, y) is $(2, -4)$. $x =$ _____.
42. An octagon has _____ sides.

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43. Find the sum of the roots of $x^2 - 2x - 1 = 0$.
_____.
44. $5.484 \text{ m}^2 =$ _____ cm^2 .
45. $9! \div 8! =$ _____.
46. If $\frac{5}{9} = \frac{x}{y}$, then $\frac{x+y}{y} =$ _____.
47. $125 \times 56 =$ _____.
48. Two numbers are in a ratio 1 : 4. If their sum is 35, find the larger number. _____.
49. $16\frac{2}{3}\%$ = _____ (fraction).
- (*) 50. $85 \times 35 \times 93 =$ _____.
51. $10111_2 =$ _____ $_4$.
52. $41 \times 41 =$ _____.
53. $\frac{1}{7}$ of a gallon = _____ in^3 .
54. $\log_6 6 =$ _____.
55. The diagonals of a rhombus are 28 and 7. Find the area of the rhombus. _____.
56. $201 \times 199 =$ _____.
57. If $x + y = 16$ and $x - y = 4$, then $x =$ _____.
58. $1 + \frac{1}{4} + \frac{1}{16} + \frac{1}{64} + \dots =$ _____.
59. Find the distance between the points (8, -6) and (5, -2). _____.
- (*) 60. $2^5 \times 5^2 =$ _____.
61. If ${}_8C_2 = {}_8C_n$ and $n \neq 2$, then $n =$ _____.
62. $(3 - 5i)(3 + 5i) =$ _____.
63. $100^\circ \text{ C} =$ _____ $^\circ \text{ F}$.
64. ${}_5P_2 =$ _____.
65. If $f(x) = 5x + 5$, then $f^{-1}(0) =$ _____.
66. The period of the graph $y = 3\sin(2x)$ is _____ $^\circ$.
67. Find the probability of rolling two fair dice whose sum is 10. _____.
68. If $\sin x = \frac{1}{6}$, then $\csc x =$ _____.
69. Find the coefficient of the 2nd term of the binomial expansion of $(x - 7y)^3$. _____.
- (*) 70. The area of the circle $x^2 - 27x + y^2 + 45y = 200$ is _____.
71. $111 \times \frac{7}{37} =$ _____.
72. If $\det \begin{vmatrix} -2 & 1 \\ x & 3 \end{vmatrix} = -2$, then $x =$ _____.
73. $531_8 - 73_8 =$ _____ $_8$.
74. The horizontal asymptote of $f(x) = \frac{-x-5}{5x-4}$ is $y =$ _____.
75. $\frac{7}{9} + \frac{9}{7} - 2 =$ _____.
76. The maximum value of $y = -(x-9)^2 - 3$ is _____.
77. $\frac{22}{29} - \frac{7}{10} =$ _____.
78. How many regions in a plane are determined by 4 lines, no 2 are parallel and no 3 lines are concurrent? _____.
79. $\int_1^3 3x^2 dx =$ _____.
- (*) 80. $142857 \times 28 =$ _____.