

1. $14 + 16 + 20 =$ _____ .
2. $392 - 293 =$ _____ .
3. $172 \div 5$ has a remainder of _____ .
4. $8 \times 7 \times 6 =$ _____ .
5. 80% of 40 is _____ .
6. $19^2 =$ _____ .
7. $94 \times 23 + 94 \times 17 =$ _____ .
8. $1\% =$ _____ (fraction).
9. 40 quarts = _____ gallons.
- (*) 10. $86 + 204 + 553 + 295 =$ _____ .
11. Find the GCD of 45 and 75. _____ .
12. $506 \times 15 =$ _____ .
13. $4\frac{1}{3} - 2\frac{2}{3} =$ _____ (mixed number).
14. $12^2 - 8^2 =$ _____ .
15. $2005 \div 20.05 =$ _____ .
16. $31 \times 12 =$ _____ .
17. The multiplicative inverse of $\frac{7}{9}$ is _____ .
18. $4 \times 4 \times 4 =$ _____ .
19. $28 \times 32 =$ _____ .
- (*) 20. $771 \times 902 =$ _____ .
21. $9\frac{7}{10} \times 11\frac{7}{10} =$ _____ (mixed number).
22. The area of a circle is 9π . Find its radius. _____ .
23. $24^2 + 72^2 =$ _____ .
24. Find the sum of the positive integral divisors of 17.
_____ .
25. $98 \times 92 =$ _____ .
26. $10^3 - 10^2 - 10 =$ _____ .
27. $26 + 12 + 26 + 12 + 26 + 12 =$ _____ .
28. $(1 + 3 + 5)(2 + 4 + 6) =$ _____ .
29. $3 \times 1\frac{1}{3} =$ _____ .
- (*) 30. $\sqrt{281164} =$ _____ .
31. Find the sum of the roots of $4x^3 - 7x^2 - 4x - 3 = 0$.
_____ .
32. $2006 \div 17 =$ _____ .
33. $77 \times 143 =$ _____ .
34. $32 \times 75 =$ _____ .
35. Solve for x : $5x + 16 = 7x + 48$ _____ .
36. $103 \times 104 =$ _____ .
37. Two angles of a triangle sum to 80° . How many obtuse angles does this triangle have? _____ .
38. $5\frac{1}{4}$ meters = _____ centimeters.
39. $\sqrt{4^2 + 3^2} =$ _____ .
- (*) 40. $399155 \div 621 =$ _____ .
41. 5 pints = _____ ounces.

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42. How many positive numbers less than or equal to 22 are relatively prime to 22? _____.
43. $.161616\dots =$ _____ (fraction).
44. The next term in the sequence 5, 6, 9, 14, 21, ... is _____.
45. If $4(x - 3) = 22$, then $4x - 5 =$ _____.
46. $5 - 4 \div 3 \times 2 - 1 =$ _____.
47. $169^{1/2} =$ _____.
48. $110100_2 =$ _____₈.
49. $8.5 \times 8.5 =$ _____ (decimal).
- (*) 50. $19 \times 69 \times 16 =$ _____.
51. The hypotenuse of a 30° - 60° - 90° right triangle is 18. Find the shorter leg. _____.
52. $8\frac{1}{3}\% =$ _____ (fraction).
53. $28 \times 17 + 14 \times 36 =$ _____.
54. The slope of the line $x - 2y = 3$ is _____.
55. $4.04 \div .25 =$ _____ (decimal).
56. $804^2 =$ _____.
57. $\frac{1}{3}$ of a mile = _____ feet.
58. $125 \times 52 =$ _____.
59. If $\log_x 16 = 4$, then $x =$ _____.
- (*) 60. $1 + 1.6 + (1.6)^2 + (1.6)^3 + \dots + (1.6)^{12} =$ _____.
61. $\frac{16}{13} + \frac{13}{16} - 2 =$ _____.
62. $\sin\left(-\frac{\pi}{6}\right) =$ _____.
63. Find the remainder when $x^3 + 4x^2 - 2x + 1$ is divided by $x - 1$. _____.
64. $23_5 + 14_5 =$ _____₅.
65. A right circular cone has a radius of 3 inches and height of 4 inches. Find the slant height of the cone. _____ inches.
66. $\frac{8\pi}{5}$ radians = _____ $^\circ$.
67. $\tan[\sin^{-1}(5/13)] =$ _____.
68. $\frac{5! - 4!}{4!} =$ _____.
69. $\frac{1}{2} - \frac{1}{10} - \frac{1}{50} =$ _____.
- (*) 70. $1428 \times 71 =$ _____.
71. If $f(x) = -8x^2 + 8x + 4$, then $f'(-8) =$ _____.
72. $1^3 + 2^3 + 3^3 + 4^3 + 5^3 =$ _____.
73. Change $(8, \frac{5\pi}{3})$ to rectangular coordinates (x, y) .
 $x =$ _____.
74. The second triangular number is _____.
75. $32^2 + 30^2 - 2^2 =$ _____.
76. $\sin(60^\circ)\cos(90^\circ) + \sin(90^\circ)\cos(60^\circ) =$ _____.
77. Change .11 in base 6 to a base 10 fraction. _____.
78. $\lim_{x \rightarrow 3} \frac{x - 4}{x} =$ _____.
79. $\int_0^8 2x \, dx =$ _____.
- (*) 80. $47^4 =$ _____.