

Answer Key

1. 9
2. 60
3. 50
4. 6
5. 20
6. $\frac{a}{6} = \begin{array}{ccc} \xrightarrow{\times 2} & \frac{1}{3} & \xrightarrow{\times 4} \\ \xleftarrow{\times 2} & & \xleftarrow{\times 4} \end{array} = \frac{4}{b}$
 $3 \times 2 = 6$, so $1 \times 2 = \underline{2 = a}$
 $1 \times 4 = 4$, so $3 \times 4 = \underline{12 = b}$
7. $\frac{a}{8} = \begin{array}{ccc} \xrightarrow{\times 2} & \frac{3}{4} & \xrightarrow{\times 6} \\ \xleftarrow{\times 2} & & \xleftarrow{\times 6} \end{array} = \frac{18}{b}$
 $4 \times 2 = 8$, so $3 \times 2 = \underline{6 = a}$
 $3 \times 6 = 18$, so $4 \times 6 = \underline{24 = b}$
8. 14 (for a) & 10 (for b)
9. 4 (for a) & 10 (for b)
10. 14 (for a) & 27 (for b)
11. 600
12. 11.1
13. 256
14. 200
15. 18
16. 20
17. 45
18. 21
19. 31
20. 11
21. 16
22. 14
23. 57
24. 38
25. 19
26. 299
27. 516
28. 672
29. 736
30. 1610
31. $\frac{1}{2}$
32. $\frac{2}{5}$
33. $\frac{1}{5}$
34. $\frac{1}{2}$
35. $\frac{1}{5}$
36. 4
37. 12
38. 10
39. 16
40. 7
41. Note: "12 books were by the same author" is irrelevant information.
 $64 - 8 = 56$ books
42. $106 + 457 = 563$
43. $223 + 347 = 570$
44. $39 - 27 = 12$
45. $15 + 14 = 29$
46. $3 \times 35 = 105$
47. $12 \times 4 = \underline{48}$
48. $3 \times 4 = 12$ (glitters)
49. $3.2 \times 8 = \underline{\$25.60}$
50. $5 \times 40 = 200$ min = 3 hr 20 min
51. $72 \div 2 = \underline{36}$ (ft)
52. $56 \div 7 = 8$
53. $135 \div 3 = 45$
 $135 - 45 = \underline{90}$
54. $(55 + 15) \div 2 = 35$
55. $10 + 5 = 15$
56. The perimeter is $2 \times (15 + 10) = 50$ in.
57. The area is $15 \times 10 = 150$ sq. in.
58. $2(25 + 10) = 70$ in
59. $25 \times 10 = 250$ in²
60. $24 \div 4 = 6$
 $6 \times 6 = \underline{36}$ sq. ft.
61. 1
62. $\frac{4}{45}$
63. 15
64. 18
65. 75
66. $\frac{-5}{3}$
67. 216
68. 3
69. $\frac{7}{12}$
70. 27