

Answer Key

1. {1, 3, 11, 33 }
2. {1, 3, 13, 39 }
3. {1, 2, 19, 38 }
4. {1, 5, 7, 35 }
5. {1, 3, 5, 9, 15, 45 }
6. {1, 2, 3, 4, 6, 9, 12, 18, 36 }
7. {1, 2, 4, 5, 8, 10, 20, 40 }
8. {1, 2, 4, 11, 22, 44 }
9. {1, 2, 3, 6, 7, 14, 21, 42 }
10. { 2, 3, 5, 7, 11, 13, 17, 19 }
11. $\frac{2}{7} = \frac{4}{14} = \frac{10}{35}$ Ans = 14 (for a) & 10 (for b)
12. $\frac{3}{3} = \frac{4}{4} = \frac{10}{10}$ Ans = 4 (for a) & 10 (for b)
13. $\frac{7}{3} = \frac{14}{6} = \frac{63}{27}$ Ans = 14 (for a) & 27 (for b)
14. $\frac{5}{3} = \frac{15}{9} = \frac{45}{27}$ Ans = 15 (for a) & 27 (for b)
15. $\frac{6}{3} = \frac{4}{2} = \frac{28}{14}$ Ans = 3 (for a) & 2 (for b)
16. $\frac{2}{5} = \frac{4}{10} = \frac{40}{100}$ Ans = 2 (for a) & 40 (for b)
17. $\frac{8}{10} = \frac{8}{10} = \frac{4}{5}$ Ans = 10 (for a) & 8 (for b)
18. $\frac{2}{3} = \frac{16}{24} = \frac{24}{36}$ Ans = 16 (for a) & 36 (for b)
19. $\frac{20}{100} = \frac{1}{5} = \frac{10}{50}$ Ans = 20 (for a) & 50 (for b)
20. $2 = \frac{4}{2} = \frac{24}{12}$ Ans = 4 (for a) & 12 (for b)
21. 10
22. 15
23. 7
24. 18
25. 8
26. 40
27. 12
28. 60
29. 9
30. 50
31. $\frac{5}{4}$
LCD = 4
32. $\frac{3}{8}$
LCD = 8
33. $\frac{13}{80}$
LCD = 80
34. $\frac{5}{6}$
LCD = 6
35. $\frac{7}{24}$
LCD = 24
36. $\frac{1}{6}$
LCD = 6
37. $\frac{4}{9}$
LCD = 9
38. $\frac{5}{96}$
LCD = 96
39. $\frac{2}{9}(=4/18)$
LCD = 18
40. $\frac{1}{15}(=8/120)$
LCD = 120
41. 44
42. 64
43. 28
44. 39
45. 38
46. 50
47. 33
48. 42
49. 124
50. 30
51. 150
52. $\square = 7$
53. $\square = 6$
54. $\frac{1}{3} = \frac{5}{15}$
 $1 \times 15 + 5 = \boxed{20}$
55. $\square = 80$
56. 12
57. 13
58. $\frac{5}{6} = 5/6$
59. $\frac{2}{3} = 2/3$
60. 50
61. $3 \times 12 \div 2 = \boxed{18 \text{ inches}}$
62. $10 + 20 = 30$
 $20 + 30 = \boxed{50}$
63. $21 \div 0.3 = 70$
64. $27 \div 3 = \boxed{9 \text{ yd}}$
65. $6 \times 4 \times 2.25 = \54
66. 10 matches needed
RY, RG, RB, RW,
YG, YB, YW,
GB, GW, and
BW.

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67. D
 $5 \times 0.5 = 2.5$
 $50 \div 2.5 = 20$
68. $42.15 \div 3 = 14.05$
 $14.05 \times 5 = \$70.25$
69. $50 \div (2 + 3) = 10$
 $10 \times 2 \times 40 = 800$ times
70. $1\frac{1}{4} : 2\frac{1}{2} = 1:2$
 $3 \times 2 = 6$ cups
71. Julio = 15
Erin = 30
Kesha = 37
Total = 82
72. (a) $47 - 3 - 14 - 1 - 14 = 15$
(b) $97 - 47 = 50$ B.C.
73. $6849 - 6750 = 99$
74. $10 \times 10 \times 10 \times 10 = 10,000$
75. 25
76. $144 \div 24 = 6$ gal
77. $1 - \frac{1}{2} = \frac{1}{2}$ (one half left)
 $\frac{1}{2} - \frac{1}{3} = \frac{1}{6}$
30 pages account for $\frac{1}{6}$ of the book.
 $30 \div \frac{1}{6} = 180$ pages
78. The decrease of 8 fewer pencils results in a difference of
 $8.45 - 6.05 = 2.40$.
Each pencil costs
 $2.40 \div 8 = 0.30$.
Therefore, 2 dozen pencils cost
 $24 \times 0.30 = 7.20$
We conclude that a pen cost
 $8.45 - 7.20 = \$1.25$
79. D
 $3 \times 4 = 12$
 $2(3 + 4) = 14$
80. $11 \frac{9}{10} \div 2 \frac{1}{3}$
 $= \frac{119}{10} \div \frac{7}{3}$
 $= \frac{119}{10} \times \frac{3}{7}$
 $= 5.1$ hour
 $= 5$ hours & 6 minutes