

Answer Key

1. 3
2. 1
3. 1
4. 3
5. 3
6. 2
7. 2
8. 2
9. 4
10. 2
11.
$$\begin{array}{r} \square \quad \frac{10}{15} \\ - \quad \frac{1}{15} \\ \hline \end{array} = \frac{9}{15} = \frac{3}{5}$$
12.
$$\begin{array}{r} \square \quad 6\frac{15}{20} \\ - \quad \frac{11}{20} \\ \hline \end{array} = 6\frac{4}{20} = 6\frac{1}{5}$$
13.
$$\begin{array}{r} \square \quad 3\frac{16}{30} \\ - \quad \frac{25}{30} \\ \hline \end{array} = 2\frac{21}{30} = 2\frac{7}{10}$$
14.
$$\begin{array}{r} \square \quad \frac{20}{30} \\ - \quad \frac{3}{30} \\ \hline \end{array} = \frac{17}{30}$$
15.
$$\begin{array}{r} \square \quad \frac{23}{24} \\ + \quad \frac{16}{24} \\ \hline \end{array} = \frac{39}{24} = \frac{13}{8} = 1\frac{5}{8}$$
16.
$$\begin{array}{r} \square \quad \frac{28}{48} \\ - \quad \frac{18}{48} \\ \hline \end{array} = \frac{10}{48} = \frac{5}{24}$$
17.
$$\begin{array}{r} \square \quad 3\frac{10}{12} \\ - \quad \frac{9}{12} \\ \hline \end{array} = 3\frac{1}{12}$$
18.
$$\begin{array}{r} \square \quad \frac{22}{30} \\ + \quad \frac{21}{30} \\ \hline \end{array} = 1\frac{13}{30}$$
19. $2 \times (3\frac{3}{4} + 8) = 23 \frac{1}{2}$ (inches)
20. $35\frac{1}{2} + 20\frac{3}{4} + 15\frac{1}{8} = 70\frac{4+6+1}{8} = 71 \frac{3}{8}$ (pounds)
21. $11 \times 2 = 22$
 $22 - 9 = 13$
22. $21 \times 3 - 9 = 54$
 $54 \div 2 = 27$
23. (a) $\frac{125+15}{2} = \$70$ (cookbook)
(b) $\frac{125-15}{2} = \$55$ (gardening)
24. $150 \div 2 = 75$
 $10 \div 2 = 5$
(a) $75 + 5 = 80$ (Pilgrims)
(b) $79 - 5 = 70$ (Indians)
25. (a) $\frac{85-7}{2} = 39$ (Tom)
(b) $39 + 7 = 46$ (Jared)
26. $45 - 20 - 8 = 17$
27. 13 & 15 & 17
28. $\frac{4 \times 85 + 90}{5} = \frac{4 \times 85 + 85 + 5}{5} = \frac{5 \times 85 + 5}{5} = 86$
29. $96 \times 2 = 192$
(a) $192 \div 3 = \$64$
(b) $64 \div 2 = \$32$
30. $(11 + 3) \div 2 = 7$
 $(11 - 3) \div 2 = 4$
 $7 \times 4 = 28$
31. 2 lb 8 oz = 40 oz
 $6.40 \div 40 = \$0.16$
32. $395 \times 6 = (400 - 5) \times 6 = 2400 - 30 = 2370$
33. $(6.5 - 2 \times 2.5) \div 3 = \0.50 (each eraser)
 $12 \times (0.5 + 2.5) = \36.00
34. Method I)
169, 164, 162
 $9 + 4 + 2 = 15$
 $15 \div 3 = 5$
 $160 + 5 = 165$

Method II)
 $169 + 164 + 162 = 495$
 $495 \div 3 = 165$
35. $\frac{2}{3} \times \frac{1}{4} = \frac{1}{6} = 1/6$
36. $2 \times 1.5 = 3$
 $3 - 1 = \$2$
37. $\frac{1}{2}(900 + 500) = 700$ (3rd)
 $900 + 500 + 700 = 2100$
 $2100 \div 3 = 700$ tickets
38. $(14 \times 5 + 180 + 6 \times 17) \div 4 = \88
39. $28 - 2 = 26$
 $\frac{26+4}{2} = 15$ games (Scott)
40. $\frac{1}{5} \times 240 = 48$
(a) $240 + 48 = \$288$ Mitchell
(b) $240 - 48 = \$192$ Nancy
41. $3 \times 240 = \$720$

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42. $0.4 = 40\%$
43. 4
44. 9
45. $\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times 144 = \boxed{360}$
46. $4\frac{13}{24} = 4\frac{13}{24}$
47. $\frac{5}{7}$
48. $A = 56$
49. $882 \div 9 = 98$
50. $\frac{1}{21}$
51. $750 \div 50 = \boxed{1.5 \text{ gal per sec}}$
52. $600 \div 1.5 = 400 \text{ sec} = \boxed{6 \text{ min } 40 \text{ sec}}$
53. Brian:
 $\frac{1}{10} \times 300 = 30$
 $50 + 30 = 80$
54. C
 Alex: $\frac{1}{6} \times 300 = 50$
 Brian: 80
 Calvin:
 $300 - 50 - 80 = 170$
 $170 \div 2 = 85$
 $85 + 10 = \boxed{95}$
55. $54 - 15 - 3 \times 9 = 12$
 $\frac{1}{2} \times 12 \times 9 = 54$
 $54 + 9^2 = \boxed{135}$
56. $63 \text{ lb } 8 \text{ oz} - 36 \text{ lb } 9 \text{ oz}$
 $= \boxed{26 \text{ lb } \& \text{ } 15 \text{ oz}}$
57. $5\frac{1}{2} = 5\frac{1}{2}$
58. $3\frac{7}{12} = 3\frac{7}{12}$
59. 1.2
60. 6.4
61. $2\frac{1}{4} \text{ lb} = 2\frac{1}{4} \times 16 \text{ oz} = 36 \text{ oz.}$
62. $105 \text{ min} = 1 \text{ hr and } 45 \text{ min} = 1\frac{3}{4} = 1\frac{3}{4} \text{ hr}$
63. 240,000
64. 3120000
65. $x = 9$
66. $1\frac{1}{2} \times 2\frac{2}{3} = \frac{3}{2} \times \frac{8}{3} = 4$
67. $\frac{1}{96}$
68. 135%
69. 10
 $79 \div 8 = 9R7$
70. $7.5 \div 3 = 2.5$
 $2.5 \times 140 = 350 \text{ miles}$
71. The sum is 36.
 Dan is 24 and Anna is 12.
 $D - A = 12$