

Answer Key

1. -5
2. 0
3. 28
4. 34
5. -4
6. 28
7. -1
8. 1
9. -7
10. 19
11. 8
12. -1
13. -1
14. -5
15. 3
16. 0
17. -2
18. 2
19. -6
20. 6
21. 2
22. 4
23. 3
24. 3
25. 4
26. 40
27. -1
28. 1
29. 2
30. 24
31. $2 \times (12.5 + 6.5) = 38$ ft
32. $3.75 \times 840 = \$3,150$
33. 160 ft (perimeter)
34. 1500 sq. ft (area)
35. 20 sections
36. $2 \times 5 \times (8 + 14) = 220$ (ft²)
37. $220 \div 50 = 4R20$
 $4 + 1 = \underline{5}$ cans
38. $5 \times 12 = \$60$
39. $2 \times (15 + 10) = 50$ in
40. $15 \times 10 = 150$ sq. in.
41. $192 \div 12 = 16$ in
42. $20 \times 12 = 240$
 $\frac{3}{4} \times 240 = 180$ in²
43. $\frac{1}{2} \times 5 \times (3 + 7) = 25$
44. 3 in = $\frac{1}{4}$ ft
 $4 \times 5\frac{1}{3} = 21$ ft
45. $80 \div 10 = 8$
46. $50 \div 2 = 25$ (half-perimeter)
 $25 - 10 = 15$ (length)
 15×10
 $= 150$ square inches
47. $74 \div 2 = 37$
 $37 - 12 = 25$
 $25 \times 12 = \underline{300}$ inches²
48. The length is 20 since
 $56 \div 2 = 28$
 $28 - 8 = 20$
49. $36 = 6 \times 6$
 $4 \times 6 = \underline{24}$ ft
50. $60 \div 4 = 15$
 $15^2 = \underline{225}$ in²
51. 10
52. 8 & 3 (R)
53. 2
54. $9^3 = (3^2)^3 = (3^3)^2 = 27^2$
 $\square = 2$
55. 23
56. $\frac{5}{24} = 5/24$
57. A = 39
58. 31
59. $8 \times 4 = 32$
60. $120 \div 40 = 3$
 1 min 30 sec = 1.5 min
 $3 \times 1.5 = \underline{4.5}$ min
61. $300 \div 40 = \frac{15}{2}$
 $\frac{15}{2} \times 1\frac{1}{2} = \frac{15}{2} \times \frac{3}{2} = \frac{45}{4} = 11\frac{1}{4} = 11$ min & 15 sec
62. $38 \div 2 = 19$ (half-perimeter)
 $19 - 10 = 9$
 $10 \times 9 = \underline{90}$ in²
63. D = 5
C = 10
B = $10 + 2 = 12$
A = $12 + 6 = \underline{18}$
64. A
65. 125%

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66. $1 = 1$
 $3 = 1+2$
 $6 = 1+2+3$
 $12 = 1+2+3+6$
 $1 + 3 + 6 + 12 = 22$
67. $8 \times 6 = 48$
 $\frac{1}{2} \times 48 = \boxed{24 \text{ in}^2}$
68. Method I)
 $12.5 + 2 \times 7.25$
 $= 12.5 + 14.5$
 $= \boxed{27}$
- Method II)
 $12\frac{1}{2} + 2 \times 7\frac{1}{4}$
 $= 12\frac{1}{2} + 14\frac{1}{2}$
 $= 27$
69. 80
70. $50 + 75 = 125$
 $50 + 125 = 175$
 $175 \times 2 = \boxed{\$350}$
71. 24
72. .6
73. $\frac{21}{10} = 2\frac{1}{10} = 2 \frac{1}{10}$
74. 0.7
75. $180 \div 12 = 15$
 $15 \div 3 = 5 \text{ yd}$
76. 3
77. 560000
78. 9
79. 18
80. $\frac{2}{3} = 2/3$
81. 125
82. 0.024
83. 14.62
84. $6,000,000 \times 10\% = 6,000,000 \times 0.1 = \$600,000$
85. $1\frac{3}{4} \times 4 \times 3 = 21$ (hours)
86. $2000 \times 25\% = 2000 \times 0.25 = 500$
87. 3157
88. $2(\text{quarter circle}) \setminus \text{square}$
 $= 200\pi - 400 = 228$
- shaded area
 $= \text{the square} - \text{the leaf}$
 $= 400 - 228$
 $= 172$
89. $60 \div .03 = 2000$
90. $32000 \div 400 = 80 \text{ sec} = 1 \text{ min} \ \& \ 20 \text{ sec}$