

Answer Key

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|--------------------------------------|---|
| 1. -6 | 43. .855 |
| 2. -6 | 44. .45 |
| 3. -7 | 45. .245 |
| 4. 5 | 46. 1.00 |
| 5. 5 | 47. .28 |
| 6. 5 | 48. .72 |
| 7. 6 | 49. .22 |
| 8. -6 | 50. .18 |
| 9. -2 | 51. B |
| 10. -1 | Dan, Chris, Jim, Tim, Robert. |
| 11. -4 | 52. $\frac{2}{6} = \frac{1}{3} = 1/3$ |
| 12. -32 | 53. $\frac{1}{4} = 1/4$ |
| 13. -2 | 54. $75\% \times 52 = 39$ |
| 14. -30 | 55. $3 \times 5 = 15$ |
| 15. 4 | 56. $3 \times 4 = 12$ |
| 16. 8 | 57. |
| 17. -6 | There are 4 possible outcomes: (H, H), (H, T), (T, H) and (T, T). |
| 18. 1 | 58. |
| 19. 5 | (H, H), (H, T), and (T, H). |
| 20. -7 | 59. $5 \times 4 = 20$ |
| 21. 4 | 60. $3 \times 2 = 6$ ways |
| 22. -1 | To scramble the work "map" as |
| 23. -1 | map, mpa, amp, apm, pam, pma. |
| 24. 2 | 61. $5 \times 4 = 20$ |
| 25. -1 | 62. $\frac{1}{2} = 1/2$ |
| 26. 3 | 63. $\frac{1}{3} = 1/3$ |
| 27. 1 | 64. $\frac{72 \times 2 \times 4}{48} = \frac{9 \times 2 \times 4}{6} = \frac{9 \times 1 \times 4}{3} = \frac{3 \times 1 \times 4}{1} = 12$ cans |
| 28. -1 | 65. 4 of them |
| 29. 2 | HHH |
| 30. -1 | HHT (including HTH, THH) |
| 31. 1296 | HTT (including THT, TTH) |
| 32. $129,600 + 2,896$
$= 132,496$ | TTT |
| 33. 676 | 66. |
| 34. 2116 | HHH |
| 35. 3136 | HHT |
| 36. 4356 | HTT |
| 37. 4761 | 67. |
| 38. 4489 | TTT |
| 39. 4900 | 68. $1.25 \times 24 = 1\frac{1}{4} \times 24 = 24 + 6 = 30$ |
| 40. 5041 | 69. $7 \times 3 = 21$ (with change) |
| 41. .11 | $7 \times 4 = 28$ (not enough) |
| 42. .375 | Ans = 3 books at most |

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70. Note: to get $\frac{1}{4}$ of red, the ratio of red to white is 1:3.
 $1:3 = 2:6 = 3:9$, thus there are at 3 red goldfish and 9 white goldfish that can be put into the tank.
 Ans = 3 red & 9 white
71. $\frac{3}{2} = 3/2$
72. $\frac{2}{5} = 2/5$
73. $\frac{1}{4} = 1/4$
74. $A = 12$
75. $\frac{3}{8} \times 24 = 9$
76. 0.06
77. 18
78. 500
79. $120 \div 2 = 60$
 $60 \div 3 = 20$ (width)
 $20 \times 2 = 40$ (length)
 $20 \div 2 = 10$ (radius)
 $10^2 \pi = 314$
 $2 \times 314 = 628$ (two circles)
 $20 \times 40 = 800$
 $800 - 628 = 172$
80. $10 - 6 = 4$ (height)
 $4 \times 6 = 24 \text{ in}^2$
81. $60 \div 2 = 30$
 $30 - 20 = 10$
 $20 \times 10 = 200 \text{ in}^2$
82. 12×25000
 $= 3 \times 4 \times 25000$
 $= 3 \times 100000$
 $= 300,000$
83. B
84. 3.25
85. $120 \div 12 = 10$
 $2(12 + 10) = 44 \text{ ft}$
86. $40 \times 12.25 = 490$
87. $195 \div 32\frac{1}{2}$
 $= 195 \div 32.5$
 $= \$60 \text{ per hour}$
88. $360 \div 60 = 6$
89. $20 \times 3 \times 2 = \$120$
90. 1, 2, 3, 4, 6, and 12 are the factors of 12. Their sum is
 $1 + 2 + 3 + 4 + 6 + 12$
 $= 28$