

# Answer Key

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|---------------------|--|
| 1. 12               | 31. $\frac{35}{100} = \frac{7}{20}$  |
| 2. 14               | 32. 3  |
| 3. 15               | 33. $\square = 4$  |
| 4. 38               | 34. 4  |
| 5. 36               | 35. $\square = 35$   |
| 6. 6                | 36. $\square = 60$   |
| 60                  | 37. $\frac{3}{4} = 3/4$  |
| 6                   | 38. $24 \times 60 = 1440$ min  |
| 600                 | 39. $52 + 2 - 5 = \boxed{49}$  |
| 7. 7                | 40. $2 \times 0.75 = 1.5$  |
| 70                  | $4 \times 0.75 = 3$  |
| 7                   | $6 \times 0.75 = 4.5$  |
| 700                 | $\boxed{\text{Ans} = 6 \text{ cans only}}$                                 |
| 8. 8                | 41. $1600 \div 8 = 200$  |
| 80                  | 42. $31 \div 5 = 6R1$  |
| 8                   | $\text{Ans} = \boxed{7 \text{ boxes}}$ are needed                          |
| 80                  | 43. $3 \times 12 \times 0.3 = \$10.80$                                     |
| 9. 2                | 44. $4:55 \text{ am} + 1:17 = 6:12 \text{ pm}$                             |
| 20                  | 45. Sat, Sun, Mon, Tue, Wed  |
| 2                   | Wed - Sat = 4 days   |
| 20                  | $2 \times 2 \times 2 \times 2 = 2^4 = 16$                                  |
| 10. 3               | $6 \times 16 = \boxed{96 \text{ inches}}$                                  |
| 30                  | 46. Tom = $5 + 2 = 7$ yrs old  |
| 3                   | Sam = $3 \times 7 = \boxed{21}$ yrs old                                    |
| 300                 | 47. 16   |
| 11. 1.2             | 48. $20 \times 2 - 15 = \boxed{25}$  |
| 12. 12              | 49. $80 + 10 = 90$   |
| 13. 100             | $90 \div 2 = \boxed{45}$   |
| 14. 80              | 50. $20 \times 5 = 100$  |
| 15. 4               | $120 - 100 = 20$   |
| 16. 121             | $20 \div 10 = 2$ (dimes)   |
| 17. 144             | 51. $1 + 20\% = 1.2$   |
| 18. 169             | $60 \times 1.2 = \$72$   |
| 19. $1/16$          | 52. $5\% \times 72 = 3.6$ (tax)  |
| 20. .008            | $(72 + 3.6) \times 2 = 75.6 \times 2 = \$151.20$                           |
| 21. $1/2$           | 53. Prob(red) = $\frac{5}{8}$  |
| 22. $2/5$           | Prob(blue) = $\frac{1}{8}$   |
| 23. $1/8$           | Prob(yellow) = $2/8 = \frac{1}{4}$   |
| 24. $2/3$           | $48 \times \frac{1}{4} = 12$   |
| 25. $2/5$           | 54. $\frac{15}{90} \times 180 = 30$  |
| 26. $3 \frac{4}{9}$ | 55. $60 \div 2 = 30$ (half-perimeter)                                      |
| 27. $1/3$           | Since the ratio is 2:1, the partition is $\frac{2}{3}$ and $\frac{1}{3}$ . |
| 28. $1 \frac{5}{7}$ | $30 \times \frac{2}{3} = 20$ (length)                                      |
| 29. $7/20$          | $30 \times \frac{1}{3} = 10$ (width)                                       |
| 30. $8/25$          | $20 \times 10 = 200 \text{ ft}^2$ (area)                                   |

## MAP 250 (T1) Issue 3

56.  $\frac{14}{6} \times 9 = \frac{7}{3} \times 9 = \$21$
57.  $8:00 + 7:25 + 4:30 + 6:15 + 4:35 = 34:45 = 30\frac{3}{4}$  hr  
 $30\frac{3}{4} \times 12 = \$369$
58.  $84 \times \frac{1}{3} \times \frac{3}{4} = 21$
59.  $1 - 20\% = 0.8$   
 $30 \times .8 = \$24$
60. 1 foot = 12 inches  
8 feet = 96 inches  
 $96 \div 10 = 9.6$  (hr)  
 $8 \div 3 = 2R2$   
 $30 \times 2 = 60$  min = 1 hr (Charlie rests twice.)  
 $9.6 + 1 = 10.6 = 10$  hr & 36 min
61.  $12 \div 16 = \frac{3}{4} = 3/4$  lb
62.  $25\% \times 24 = \frac{1}{4} \times 24 = 6$  hr
63. B  
 $5/6 = 35/42$  (A speed)  
 $6/7 = 36/42$  (B speed, faster)
64.  $2 + 6 = 8$   
 $3 + 5 = 8$   
 $8 \times 8 - 18 = 46$
65. the total of first 4 tests =  $82 + 82 + 76 + 92 = 332$   
the total of five tests =  $86 \times 5 = 430$   
the fifth test =  $430 - 332 = 98$
66. 1:1
67. 1:1
68. 1:1
69. 1:1
70.  $1:2 \times \frac{5}{3} = 3:10$