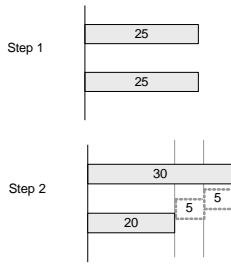


# Answer Key

- |                    |  |
|--------------------|--|
| 1. 12,000          | 43. 64                                 |
| 2. 1,200           | 44. 128                                |
| 3. 10,000          | 45. 256                                |
| 4. 8,000           | 46. 512                                |
| 5. 400             | 47. 27                                 |
| 6. 6,000           | 48. 81                                 |
| 7. 1,000           | 49. 243                                |
| 8. 8,000           | 50. 729                                |
| 9. 80,000          | 51. $11/28$                            |
| 10. 10,000         | LCD = 28                               |
| 11. 1.2            | 52. $5/12$                             |
| 12. 12             | LCD = 12                               |
| 13. 100            | 53. $5/24$                             |
| 14. 80             | LCD = 24                               |
| 15. 4              | 54. $9/20$                             |
| 16. 60             | LCD = 20                               |
| 17. 10             | 55. $17/144$                           |
| 18. 80             | LCD = 144                              |
| 19. 8              | 56. $14/45$                            |
| 20. 100            | LCD = 45                               |
| 21. 0              | 57. $13/80$                            |
| 22. 25             | LCD = 80                               |
| 23. 9              | 58. $5/35$                             |
| 24. 1              | LCD = 36                               |
| 25. 7              | 59. $1/24$                             |
| 26. 19             | LCD = 24                               |
| 27. 17             | 60. $6/35(=12/70)$                     |
| 28. 2              | LCD = 70                               |
| 29. 31             | 61. $\frac{1}{2}(7 + 9) = 8$           |
| 30. 25             | 62. $\frac{1}{2}(9 + 13) = 11$         |
| 31. $3\frac{1}{7}$ | 63. $10 \times 3 = 30$                 |
| 32. $1\frac{2}{7}$ | 64. $\frac{1}{2}(80 + 90) = 85$        |
| 33. $2/5$          | 65. (a) $\frac{55+5}{2} = \$30$ (Alex) |
| 34. $7/20$         | (b) $\frac{55-5}{2} = \$25$ (Brian)    |
| 35. $3\frac{4}{7}$ | 66. $\frac{1}{2}(62 + 78) = 70$        |
| 36. $3\frac{1}{8}$ | 67. $125 \times 4 = 500$ people        |
| 37. $1\frac{3}{8}$ | 68. $18 \div 2 = 9$                    |
| 38. $3\frac{4}{5}$ | 69. $\frac{65 - 25}{2} = \$20$         |
| 39. $2\frac{5}{8}$ |  |
| 40. $2/5$          |  |
| 41. 16             |  |
| 42. 32             |  |

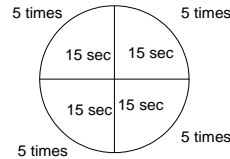
# MAP 250 (T2) Issue 1

70.  $50 \div 2 = 25$  (average)  
 $10 \div 2 = 5$   
 (a)  $25 + 5 = 30$  (larger)  
 (b)  $25 - 5 = 20$  (smaller)



71.  $14,000 \div 7 - 1800 = 200$  calories  
 72.  $184 \div 8 = 23$  miles per gallon  
 73.  $7 \times 300,000,000 = 2.1$  billion trees  
 74.  $85 - 25 = 60$   
 $60 \div 2 = \$30$   
 75.  $68 \times 3 = 204$   
 $204 - 56 - 78 = 70$   
 76.  $(1.2 \times 5)^2 = 6^2 = 36$   
 77. 1.4  
 78.  $(-3) \times (-4) + (-6) \times (-7) = 12 + 42 = 54$   
 79.  $\frac{60}{16} = \frac{15}{4} = 3\frac{3}{4} = 3\frac{3}{4}$  lb  
 80.  $2(100 + 1) = 202$

81. 25% (absent)  
 $1 - 25\% = 75\%$  (present)  
 $75\% = 3(25\%)$   
 $3(5) = 15$  students (present)  
 82.  $24 \times \frac{5}{6} = 20$   
 83.  $(-3, -2)$   
 84.  $60 \div 15 = 4$   
 $5 \times 4 = 20$  times



85. C  
 $25 + 35 + 30 = 90$   
 $100\% - 90\% = 10\%$   
 $300 \times 10\% = 30$   
 86.  $200 \times \frac{1}{4} = \$50$   
 87.  $200 \div \frac{4}{5} = 250$  or  $200 + 50 = \$250$   
 88. 6 possible outcomes  
 $(1, 2), (1, 3), (1, 4),$   
 $(2, 3), (2, 4),$   
 $(3, 4).$   
 89.  $\frac{12}{4} \times 15 = 45$  mi  
 90.  $\frac{\text{distance}}{\text{time}} = \frac{180}{3} = 60$  mph