

# Answer Key

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|------------------------------------|--|
| 1. {1, 11, 121 }                   | 36. 7/17   |
| 2. {1, 3, 41, 123 }                | 37. 8/49   |
| 3. {1, 2, 59, 118 }                | 38. 9/82   |
| 4. {1, 2, 61, 122 }                | 39. 10/21  |
| 5. {1, 3, 43, 129 }                | 40. 7/18   |
| 6. {1, 5, 25, 125 }                | 41. $60 \times 1 + 60/5 \times 2 = 84$                                 |
| 7. {1, 7, 17, 119 }                | 42. $(36 \times 3 + 36/9 \times 4)/4 = 31$                             |
| 8. {1, 2, 5, 10, 13, 26, 65, 130 } | 43. $4 \times 20 + 3 \times 5 + 10 \times 2 = 115$                     |
| 9. {1, 2, 4, 31, 62, 124 }         | 44. $76/(2+5/7) = 28$  |
| 10. {1, 2, 4, 8, 16, 32, 64, 128 } | 45. $84 - 84 \times (1/7) = 72$  |
| 11. 0.75                           | 46. $102/3 \times 1 = 34$  |
| 12. 5.25                           | 47. $24 \times 1 + 24/3 \times 1 = 32$                                 |
|                                    | 48. $18/6 \times 5 = 15$   |
|                                    | 49. $50/5 \times 2 = 20$   |
|                                    | 50. $120 - 120 \times (1/8) = 105$                                     |
|                                    | 51. 0.048  |
|                                    | 52. 0.024  |
|                                    | 53. 0.032  |
|                                    | 54. 0.032  |
|                                    | 55. 0.2  |
|                                    | 56. 0.02   |
|                                    | 57. 0.003  |
|                                    | 58. 0.0063   |
|                                    | 59. 0.016  |
|                                    | 60. 0.045  |
|                                    | 61. 4900   |
|                                    | 62. 3600   |
|                                    | 63. 6400   |
|                                    | 64. 512000   |
|                                    | 65. 8100   |
|                                    | 66. 2500   |
|                                    | 67. 121  |
|                                    | 68. 1331   |
|                                    | 69. 729000   |
|                                    | 70. 40960000   |
|                                    | 71. $\frac{10}{12} - \frac{1}{12} = \frac{9}{12} = \frac{3}{4}$        |
|                                    | 72. $3\frac{12}{30} + 2\frac{25}{30} = 5\frac{37}{30} = 6\frac{7}{30}$ |

$$\begin{array}{r}
 5 \ .2 \ 5 \\
 4 \overline{)21.0} \\
 \underline{20} \phantom{0} \\
 1 \ 0 \phantom{0} \\
 \underline{8} \phantom{0} \\
 2 \ 0 \phantom{0} \\
 \underline{20} \phantom{0} \\
 0
 \end{array}$$

13. 0.4
14. 0.6
15. 0.5
16. 0.25
17. 0.125
18. 0.375
19. 0.8
20. 0.5
21. 50
22. 20
23. 15
24. 7
25. 30
26. 4
27. 18
28. 8
29. 40
30. 5
31. 2/9
32. 3/20
33. 4/35
34. 5/13
35. 6/29

# MAP 250 (T1) Issue 12

$$73. \quad \begin{array}{r} 1\frac{12}{30} \\ - \frac{25}{30} \\ \hline \end{array} = \begin{array}{r} \frac{12}{30} \\ + \frac{5}{30} \\ \hline \end{array} = \frac{17}{30}$$

74. First, add all the whole numbers,  
 $= 10 + (\frac{2}{3} + \frac{1}{4} + \frac{1}{2})$   
 Then, add the fractions.  
 $= 10 \frac{8+3+6}{12}$   
 $= 10 \frac{17}{12}$   
 $= 11 \frac{5}{12} = 11 \frac{5}{12}$

$$75. \quad \begin{array}{r} 1\frac{20}{48} \\ - \frac{39}{48} \\ \hline \end{array} = \begin{array}{r} \frac{20}{48} \\ + \frac{9}{48} \\ \hline \end{array} = \frac{29}{48}$$

$$76. \quad \begin{array}{r} 2\frac{20}{24} \\ - \frac{9}{24} \\ \hline \end{array} = 2\frac{11}{24}$$

$$77. \quad \begin{array}{r} \frac{21}{35} \\ + \frac{1}{35} \\ \hline \end{array} = \frac{22}{35}$$

$$78. \quad \begin{array}{r} \frac{7}{8} \\ - \frac{5}{12} \\ \hline \end{array} = \begin{array}{r} \frac{21}{24} \\ - \frac{10}{24} \\ \hline \end{array} = \frac{11}{24}$$

$$79. \quad \begin{array}{r} \frac{5}{6} \\ + \frac{4}{6} \\ \hline \end{array} = \frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$$

$$80. \quad \begin{array}{r} \frac{16}{30} \\ - \frac{5}{30} \\ \hline \end{array} = \frac{11}{30}$$

$$81. \quad \begin{array}{r} \frac{15}{20} \\ + \frac{14}{20} \\ \hline \end{array} = \frac{29}{20} = 1\frac{9}{20}$$

$$82. \quad \begin{array}{r} \frac{4}{12} \\ - \frac{2}{12} \\ \hline \end{array} = \frac{11}{12}$$

$$83. \quad \begin{array}{r} \frac{1}{8} \\ + \frac{4}{8} \\ \hline \end{array} = \frac{11}{8} = 1\frac{3}{8}$$

$$84. \quad \begin{array}{r} 2\frac{2}{60} \\ - \frac{21}{60} \\ \hline \end{array} = \begin{array}{r} 1\frac{62}{60} \\ - \frac{21}{60} \\ \hline \end{array} = 1\frac{41}{60}$$

$$85. \quad \begin{array}{r} \frac{9}{15} \\ - \frac{5}{15} \\ \hline \end{array} = \frac{4}{15}$$

86. 76  
 $\frac{1}{3} \times 57 \times 4 = \boxed{76}$

87.  $\frac{1}{12}$

88. Each pair sums up to 100.  
 $12 + 88 = 100$   
 $8 + 8 = \boxed{16}$

89. 1 and -1

90.  $2 + 7 \times 4 = 30$   
 $37 - 30 = \boxed{7}$

91. B

92.  $10,000 \div 1000 = 10$   
 $1.8 \times 10 = \boxed{18 \text{ km}}$

93. Move 1 chick from each of 3 coops to this empty coop.  
 There will be 4 coops with 3 chickens.

94.  $4 + 8 = \boxed{12}$

95.  $3 \times 4 + 4 \times 8 = 12 + 32 = \boxed{44 \text{ chickens}}$