

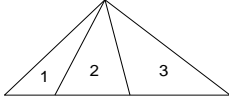
Answer Key

- | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. 13 | 31. $\frac{23}{40}$
LCD = 40 |
| 2. 35 | 32. $\frac{13}{80}$
LCD = 80 |
| 3. 21 | 33. $\frac{31}{35}$
LCD = 35 |
| 4. 15 | 34. $\frac{13}{160}$
LCD = 160 |
| 5. 53 | 35. $\frac{23}{40}$
LCD = 40 |
| 6. 149 | 36. $\frac{1}{24}$
LCD = 24 |
| 7. 235 | 37. $\frac{1}{20}$
LCD = 20 |
| 8. 142 | 38. $\frac{7}{24}$
LCD = 24 |
| 9. 223 | 39. $\frac{1}{4}(=\frac{3}{12})$
LCD = 12 |
| 10. 244 | 40. $\frac{1}{10}(=\frac{4}{40})$
LCD = 40 |
| 11. 4
40
4
40 | 41. 15 |
| 12. 5
50
5
500 | 42. 22 |
| 13. 8
80
8
80 | 43. 48 |
| 14. 9
90
9
900 | 44. 21 |
| 15. 2
20
2
200 | 45. 52 |
| 16. $1\frac{2}{15}$ | 46. 0.0024 |
| 17. $\frac{3}{25}$ | 47. $\square = 3$ |
| 18. $\frac{23}{35}$ | 48. 40500 |
| 19. $\frac{7}{15}$ | 49. 16 |
| 20. $\frac{17}{35}$ | 50. 145 |
| 21. 168 | 51. $\frac{75}{6} = \frac{25}{2} = 12\frac{1}{2} = 12\frac{1}{2}$ |
| 22. 168000 | 52. $7 \times 60 = 420$
$\frac{1}{2} \times 60 = 30$
$420 + 30 = \boxed{450 \text{ min}}$ |
| 23. 192 | 53. $\frac{1}{6}$ |
| 24. 192000 | 54. $\frac{65}{4} = \boxed{16\frac{1}{4}} = 16\frac{1}{4}$ |
| 25. 48 | 55. 50 times |
| 26. 48000 | 56. $1 + 1 = 2$
$2 + 2 + 2 = 6$
$6 + 3 + 3 = 12$
$12 + 4 + 4 = 20$
$20 + 5 + 5 = 30$
$30 + 6 + 6 = 42$
$42 + 7 = 49$ |
| 27. 144 | |
| 28. 144000 | |
| 29. 42 | |
| 30. 42000 | |

MAP 250 (T1) Issue 4

57. $36 = 6^2$
 $6 \div 2 = 3$
 $2(3+6) = 18$ in

58. There are
 3 smaller sized triangles: (1), (2), (3)
 2 medium sized triangles: (12), (23)
 1 large sized triangle: (123)
 $1 + 2 + 3 = 6$
 Note: (13) is not a triangle.



59. #(the smallest size triangles) = 9
 #(the medium size triangles) = 3
 #(the largest size triangle) = 1
 $9 + 3 + 1 = 13$

60. #(the smallest square) = 9
 #(the medium square) = 4
 #(the largest square) = 1
 $9 + 4 + 1 = 14$

61. $\frac{1}{3} \cdot \frac{3}{5} = \frac{5}{9}$
 $2(\frac{5}{9} + \frac{3}{5}) = \frac{104}{45} = 2\frac{14}{45} = 2\ 14/45$

62. D
 $17 - 1 = 16$
 $16 \div 7 = 2$ R 2
 Saturday - 2 = Thursday

63. $\frac{1}{\frac{1}{2} + \frac{1}{3}} = 1\frac{1}{5}$ hr
 Ans = 1:12 pm

64. Method I)
 $6 \times \frac{1\frac{1}{2}}{2} = 3.6$ miles from Sally's home.

Method II)
 Since Sally walks faster, the meeting place will be farther to her home.

(a) $6 \times \frac{3}{2+3} = 3.6$ (from Sally's)
 (b) $6 \times \frac{2}{2+3} = 2.4$ (from Tom's)

65. B

66. A: $\frac{60}{20} = 3$ sec per swing
 B: $\frac{60}{15} = 4$ sec per swing
 LCM(3, 4) = 12
 Every 12 sec, they will return to the starting point.
 $1 + \frac{60}{12} = 1 + 5 = \underline{6 \text{ times}}$

67. $50 \times 2\frac{1}{2} = 125$ mi

68. $\frac{1}{2} = 1/2$

69. $50 \div 2 = 25$
 $25 \times 5 = \$125$

70. $\frac{30000 - 25000}{25000} = \frac{5}{25} = \frac{1}{5} = 0.2 = 20\%$