

Answer Key

1. 11
 2. 13
 3. 11
 4. 19
 5. 32
 6. 6
 60
 6
 60
 7. 7
 70
 7
 70
 8. 8
 80
 8
 80
 9. 9
 90
 9
 90
 10. 4
 40
 4
 400
 11. 0.012
 12. 0.12
 13. 0.01
 14. 0.008
 15. 0.04
 16. 0
 17. 25
 18. 9
 19. 1
 20. 7
 21. $\frac{11}{28}$
 LCD = 28
 22. $\frac{5}{12}$
 LCD = 12
 23. $\frac{5}{24}$
 LCD = 24
 24. $\frac{9}{20}$
 LCD = 20
 25. $\frac{17}{144}$
 LCD = 144
 26. 33
 27. 15
 28. 33
 29. 64
 30. 14
 31. $1\frac{2}{3}$
 32. 45 min
 33. $4:45 - 50 = 3:55$
 34. 20
 35. $(15 - 14) + (13 - 12) + (11 - 10) + (9 - 8) + (7 - 6)$
 $= 5$
 36. 10
 37. 14
 38. 320
 39. 9
 40. $90 - 42 = 48^\circ$
 41. $100 \div 25 = 4$
 $20 \times 4 = 80$
 42. $4 \times 175 = 700$
 43. LCM(8, 12) = 24
 $24 \times 5 = 120$
 44. \$6.00
 45. 6 times
 See the record below. "T" means target and B means bull's eye.
- | | |
|---|---|
| 1 | |
| 2 | |
| 3 | T |
| 4 | B |
| 5 | |
| 6 | T |
- | | |
|----|---|
| 7 | |
| 8 | B |
| 9 | T |
| 10 | |
| 11 | |
| 12 | B |
46. $126 \div 7 = 18$ (weeks)
 47. $2 \times 12 = 24$
 $\frac{1}{2} \times 12 = 6$
 $24 + 6 = 30$
 48. $8 \times 4 - 4 = 28$
 49. $22 + 17 = 39$
 $39 \div 3 = 13$
 50. \$13
 51. 25%
 52. 50%
 53. 75%
 54. 20%
 55. 40%
 56. 60%

MAP 250 (T1) Issue 2

57. 80%

58. $\frac{2}{5}$

59. $24 \times \frac{7}{8} - 6 = 15$

60. $\frac{1}{4} = 0.25 = 25\%$

61. D

62. $2^3 = 8$

$8 \times 20 = 160 \text{ cm}^3$

63. $75\% \times 28 = \frac{3}{4} \times 28 = 21$

64. # games = $28 + 22 = 50$

wins = $21 + 14 = 35$

percent winning = $\frac{35}{50} = 0.7 = 70\%$

65. $28 + 22 + 40 = 90$

$90 \times 80\% = 90 \times 0.8 = 72$

$72 - (21 + 14) = 72 - 35 = 37$

66. Method I)

Let there be x boys and $11 - x$ girls.

$3(11 - x) > x$

So, $33 > 4x$ or $\frac{33}{4} > x$

$2x > 5(11 - x)$

So, $7x > 55$ or $x > \frac{55}{7}$

Now, $\frac{33}{4} > x > \frac{55}{7}$

x must be 8.

Method II)

Try and error: 1 girl and 10 boys, 2 girls and 9 boys, etc.

Ans = 3 girls & 8 boys

67. $\frac{\text{discount}}{\text{original price}} = \frac{10}{50} = 20\%$

68. Update the given information on the decision table as below.

	brown	blue	red	purple
Patty	×			
Jenna	×	×		
Matt		×	✓	
Tom			×	

Cross (×) and check (✓) the remaining cells.

	brown	blue	red	purple
Patty	×	✓	×	×
Jenna	×	×	×	✓
Matt	×	×	✓	×
Tom	✓	×	×	×

Matt's favorite color is red.

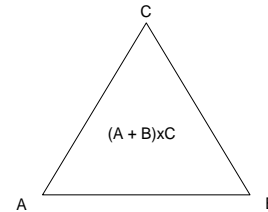
Jenna's favorite color is purple.

Patty's favorite color is blue.

Tom's favorite color is brown.

(a) T (b) P (c) M (d) J

69. $120 \times 60\% = 120 \times 0.6 = 72 \text{ lb}$



70. $(1 + 2) \times 5 = 15$