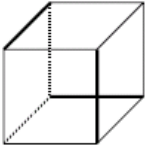


Answer Key

1. C
 $60 \div 12 = 5$
 $5 \times 13 = 65$
 2. D
 3. $35 \div (2 + 1 \div 2) = 15$
 4. B
 5. D
 $490 \div 35 = \$14$
 6. B
 7. 21
 8. C
 The money left for the ten remaining winners is
 $2400 \times \frac{2}{3} = 1600$
 $1600 \times \frac{1}{10} = 160$
 9. A
 depth = 12 in
 width = 20 in
 length = 40
 volume = $12 \times 20 \times 40 = 9600$ in³
 10. B
 $37 + 7) \div 2 = 22$
 11. $200 \times 10\% = \$20.00$ (tax)
 $200 + 20 = \$220.00$ (after tax)
 12. C
 13. B
 14. C
 $45 \div 5 = 9$
 $9 \times 3 = 27$
 15. D
 $3\frac{1}{2} \times 2000 = 7000$
 16. A
 $2\frac{3}{4} \times 2 = 4\frac{3}{2} = 5\frac{1}{2}$
 17. B
 18. B
 If the heavy black lines represent the color red, every face will have exactly one red edge. So the smallest number of red edges is 3.
- 
19. $55 \div 5 \times 2 = 22$
 20. C
 21. A
 22. D
 23. A
 $16 + 6 = 22$
 $22 \div 2 = 11$
 $11 - 6 = 5$
 24. A
 25. B
 26. B
 $5a + 6b = 8b + 9p$
 $5a = 2b + 9p$
 $10p = 2b + 9p$
 $p = 2b$
 27. C
 $\frac{2x-3}{4} = 8$
 $2x - 3 = 32$
 $2x + 3 = 38$
 28. D
 29. D
 $9 - x < 7 < 15 - x$ (add x)
 $9 < x + 7 < 15$ (subtract 7)
 $2 < x < 8$
 30. E
 31. E
 32. C
 33. E
 34. A
 35. E
 36. D
 37. $0.75 = \frac{1}{4}$
 $\frac{5}{4} = 1\frac{1}{4}$
 $0.75^2 + 2 \cdot \frac{3}{4} \cdot 1\frac{1}{4} + (\frac{5}{4})^2$
 $= (\frac{3}{4} + 1\frac{1}{4})^2$
 $= 2^2$
 $= 4$
 38. 256
 39. C
 40. E
 $2 \text{ yd} = 6 \text{ ft}$
 $6 + 3 = 9 \text{ ft}$
 $18 - 9 = 9$
 $9 \text{ ft} - 7\frac{1}{2} \text{ in}$
 $= 8 \text{ ft } 4\frac{1}{2} \text{ in}$
 $= 96 \text{ in} + 4\frac{1}{2} \text{ in}$
 $= 100\frac{1}{2} \text{ in}$
 41. 27
 42. 57

MAP 270 (T3) Issue 1

- | | |
|-----------|-----------------|
| 43. -7 | 62. 1 |
| 44. -10 | 63. 1 |
| 45. -38 | 64. 3 |
| 46. 48 | 65. 3 |
| 47. 70 | 66. 2 |
| 48. 12 | 67. 2 |
| 49. 19 | 68. 2 |
| 50. 4/27 | 69. 12 |
| 51. 128 | 70. 2 |
| 52. 1/256 | 71. 7 sq yards |
| 53. 256 | 72. 13 feet |
| 54. 1/4 | 73. 9 sq meters |
| 55. 1024 | 74. 61 sq cm |
| 56. 3 | 75. 13 feet |
| 57. 4 | 76. 11 meters |
| 58. 5 | 77. 8 meters |
| 59. 6 | 78. 15 inches |
| 60. 9 | 79. 7 feet |
| 61. 3 | 80. 19 inches |