

Answer Key

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|-----------|---|
| 1. 35 | 30. 1.21 |
| 2. 28 | 31. 1.331 |
| 3. 41 | 32. 1.44 |
| 4. 45 | 33. 16/25 |
| 5. 197 | 34. 64/125 |
| 6. 141 | 35. 256/625 |
| 7. 194 | 36. 2/3 |
| 8. 172 | 37. 6 |
| 9. 166 | 38. 12 |
| 10. 225 | 39. 2 |
| 11. 9 | 40. 11 |
| 90 | 41. 3 |
| 9 | 42. 1/2 |
| 900 | 43. 1/4 |
| 12. 3 | 44. 4/5 |
| 30 | 45. 4/5 |
| 3 | 46. 2 $\frac{5}{6}$ |
| 30 | 47. 1 $\frac{5}{9}$ |
| 13. 4 | 48. 7/9 |
| 40 | 49. 2 $\frac{3}{7}$ |
| 4 | 50. 2 $\frac{3}{4}$ |
| 40 | 51. 7/20 |
| 14. 5 | 52. 1 $\frac{3}{8}$ |
| 50 | 53. 5/13 |
| 5 | 54. 7/22 |
| 500 | 55. 1/4 |
| 15. 2 | 56. 0.5 |
| 20 | 57. 3 |
| 2 | 58. 1 $\frac{3}{10}$ |
| 200 | 59. 36 |
| 16. 1.8 | 60. $\frac{7}{5} \div \frac{49}{15} = \frac{7}{5} \times \frac{15}{49} = \frac{3}{7} = 3/7$ |
| 17. 60 | 61. $\frac{23}{30} = 23/30$ |
| 18. 140 | 62. $\frac{3}{7} = \frac{9}{21}$ |
| 19. 0.6 | A = 9 |
| 20. 90 | 63. 12350 |
| 21. 160 | 64. 8 (in) |
| 22. 0.9 | 65. $13 \times 3 = 39$ |
| 23. 1.4 | $10 \times 2 = 20$ |
| 24. 6 | $39 - 20 = $ 19 |
| 25. 16 | 66. the area of A = $464 - 20^2 = 64 = 8^2$ |
| 26. | the perimeter of A = $4 \times 8 = 32$ in |
| 27. 1/64 | 67. 24 |
| 28. 1/128 | |
| 29. 1/256 | |

MAP 260 (T3) Issue 1

68. A

69. $1 = 1$

$3 = 1+2$

$6 = 1+2+3$

$10 = 1+2+3+4$

$1 + 3 + 6 + 10 = 20$

70. $0.24 \times 1.5 \times 0.5$

$= 0.24 \times 0.75$

$= 0.06 \times (4 \times 0.75)$

$= \boxed{0.18}$

71. $30 + 5^2 = \boxed{55}$

| | increment from the previous night | #nickels |
|-----------------------|-----------------------------------|----------|
| 1 st night | $1 = 1^2$ \rightarrow 1 | 1 |
| 2 nd night | $4 = 2^2$ \rightarrow 5 | 5 |
| 3 rd night | $9 = 3^2$ | 14 |
| 4 th night | $16 = 4^2$ | 30 |
| 5 th night | $25 = 5^2$ | 55 |

72. 385

See the following table.

| | increment from the previous night | #nickels |
|------------------------|-----------------------------------|----------|
| 1 st night | $1 = 1^2$ \rightarrow 1 | 1 |
| 2 nd night | $4 = 2^2$ \rightarrow 5 | 5 |
| 3 rd night | $9 = 3^2$ | 14 |
| 4 th night | $16 = 4^2$ | 30 |
| 5 th night | $25 = 5^2$ | 55 |
| 6 th night | $36 = 6^2$ | 91 |
| 7 th night | $49 = 7^2$ | 140 |
| 8 th night | $64 = 8^2$ | 204 |
| 9 th night | $81 = 9^2$ | 285 |
| 10 th night | $100 = 10^2$ | 385 |

73. B

$2.94 \div 10 = 0.294$ (per ounce)

$1.56 \div 6 = 0.26$ (per ounce)

$\boxed{6\text{-oz cheaper}}$

74. $0.75 \times 2 = 1.5$

$1.5 - 1.25 = \$0.25$

75. $(4 \div 2) \times 1.39 = 2.78$

$4 \times 0.9 = 3.6$

$3.6 - 2.78 = \$0.82$

76. 3 in (A) & 6 in (B) & 6 in (C) & 5 in (D)

77. 2 in (A) & 5 in (B) & 8 in (C) & 5 in (D)

78. 6 in (A) & 8 in (B) & 7 in (C) & 4 in (D)

79. 3 in (A) & 7 in (B) & 7 in (C) & 5 in (D)

80. 5 in (A) & 12 in (B) & 2 in (C) & 5 in (D)