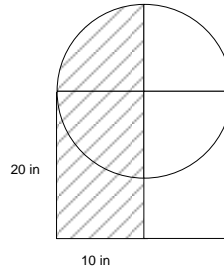


Answer Key

- | | |
|--|--|
| 1. 225 | 42. $1/2$ |
| 2. 625 | 43. $1/4$ |
| 3. 1225 | 44. $1/5$ |
| 4. 2025 | 45. 2.5 |
| 5. $72\frac{1}{4}$ | 46. $5/4 = 1.25$ |
| 6. 2.25 | 47. 8 |
| 7. 6.25 | 48. 4 |
| 8. 22500 | 49. $1/9$ |
| 9. 62500 | 50. 10 |
| 10. 0.0225 | 51. $3 + 11 = 14$ |
| 11. -12 | 52. $\frac{1}{2}(3 + 11) = 7$ |
| 12. -13 | 53. $3 \times 11 = 33$ |
| 13. -21 | 54. (a) $\frac{180+10}{2} = 95$ (Larry) |
| 14. -10 | (b) $\frac{180-10}{2} = 85$ (Wilson) |
| 15. -4 | 55. $72 \times 2 = 144$ |
| 16. -2 | $144 + 66 = 210$ |
| 17. 4 | $210 \div 3 = 70$ |
| 18. -1 | 56. $2 \times 75 + 3 \times 70 = 150 + 210 = 360$ |
| 19. 1 | $360 \div 5 = 72$ |
| 20. 2 | 57. $\frac{1}{2}(95 + 105) = 100$ |
| 21. 17 | 58. $\frac{1}{3}(100 \times 2 + 70) = 90$ |
| 22. 14 | 59. $95 \times 4 - 90 \times 3 = 110$ |
| 23. -37 | 60. $5\frac{1}{3} - 4\frac{3}{4} = \frac{7}{12}$ ft = 7 inches |
| 24. 43 | 61. $(\frac{1}{2})^2 - (\frac{1}{3})^3 = \frac{1}{4} - \frac{1}{27} = \frac{23}{108} = 23/108$ |
| 25. 2 | 62. $1\frac{9}{16}$ |
| 26. 3 | 63. 0.9 |
| 27. -5 | 64. $28/25$ |
| 28. -7 | 65. 12.5 |
| 29. 4 | 66. 84 |
| 30. -4 | 67. 3 |
| 31. $0.45 = 45\% = \frac{9}{20} = 9/20$ | 68. -2 |
| 32. $0.55 = 55\% = \frac{11}{20} = 11/20$ | 69. 3 |
| 33. $0.36 = 36\% = \frac{9}{25} = 9/20$ | 70. 9 |
| 34. $1.50 = 150\% = 1\frac{1}{2} = 1\frac{1}{2}$ | 71. $\frac{1}{2} = 1/2$ |
| 35. $\frac{3}{4} = 0.75 = 75\%$ | 72. $91 = 7 \times 13$ |
| 36. $\frac{1}{8} = 0.125 = 12.5\%$ | Ans = 7 & 13 |
| 37. $3 = 3.0 = 300\%$ | 73. $5 \times 12 = 60$ |
| 38. $\frac{5}{8} = 0.625 = 62.5\%$ | $\frac{1}{3} \times 12 = 4$ |
| 39. 12% | $60 + 4 = 64$ |
| 40. 120% | 74. $80 \times 70\% = 80 \times .7 = \56 |
| 41. 40 | |

MAP 260 (T2) Issue 1

75. $5 \times 12 \div 6 = 10$ pieces of tile
 $6 \times 12 \div 6 = 12$
 $10 \times 12 = 120$ pieces
76. Let's split 12 into 3 parts: 2 for the tens digit, and 1 for the ones digit. So, tens digit is 8 and ones digit is 4.
 Ans = 84
77. F(6, 4)
78. -1.25
79. $\frac{1}{2}x - \frac{1}{3}x = 6$
 $\frac{1}{6}x = 6$
 $x = 36$
80. $180 \div 250 = 72\%$
81. $(2.25 \times 4)^2 = 9^2 = 81$
82. $\sqrt{15} \times \sqrt{35} \times \sqrt{21}$
 $= \sqrt{3 \times 5} \times \sqrt{5 \times 7} \times \sqrt{7 \times 3}$
 $= 3 \times 5 \times 7$
 $= 105$
83. C
84. $240 - 6 + 7 = 241$
85. $4^{60} \div 2^{30} = 2^{120} \div 2^{30} = 2^{90} = 8^{30}$
 $\square = 30$
86. C
87. $2(x + \frac{1}{4}) = x - \frac{1}{2}$
 $x = -1$
88. $13 \div 65 = .2 = 20\%$
89. $125.6 \div 3.14 = 40$ in (diameter)
 $40 \div 2 = 20$ in (radius)
 $3.14 \times 20^2 = 1256$ in² (area)
90. $80 \div 10 = 8$
 $8 \times 8 \times 4 = 256$ cm²
91. bigger : smaller = 2 : 1
 $2 + 1 = 3$
 $\frac{2}{3}$: bigger one
 $\frac{1}{3}$: smaller one
 $\frac{2}{3} \times 48 = 32$ balls
92. Method I)
 $\frac{2}{7} + \frac{1}{2}(\frac{2}{7}) = \frac{4.5}{7}$
 $126 \times \frac{4.5}{7} = 18 \times 4.5 = 81$
- Method II)
 $126 \times \frac{2}{7} = 36$
 $126 - 36 = 90$
 $\frac{1}{2} \times 90 = 45$
 $45 + 36 = 81$
93. $250 + 150 \times 12 = 2050$ (total)
 $2050 - 1875 = \$175.00$
94. Flip the lower quarter circle fill up the left side.
 $20 \times 10 = 200$ in²
 $\frac{1}{4}(10^2 \times 3.14) = 78.5$
 $200 + 78.5 = 278.5$ in²



95. B = (5, 13)
96. C = (11, 13)
97. D = (14, 5)
98. B
99. $7.2 \times 7.5 = \$54$
100. $60\sqrt{2} = 84.84$ ft