

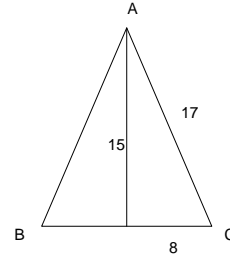
# Answer Key

1. 167
2.  $16\frac{4}{7}$
3.  $\frac{16}{81}$
4. 0.25
5.  $12 \times 3 + 23 \times 2 = 82$
6. 4
7. 4
8. 9
9.  $(9 - 8) + (7 - 6) + (5 - 4) + (3 - 2) + 1 = 5$
10. 51
11. 9:40 A.M.
12.  $8 + 3 = 11$   
 $5 + 2 = 7$  (width)  
 $11 \times 7 = \boxed{77 \text{ ft}^2}$
13.  $\frac{1}{2} \times 50 = 25$   
 $25 + 50 = \boxed{75}$
14. What is the width?  
 $8 - 2 - 2 = 4$   
 What is the length?  
 $10 + 4 - 6 = 8$   
 Thus, the area is  
 $8 \times 4 = \boxed{32 \text{ in}^2}$ .
15. 12,059
16.  $12 \div 3 = 4$   
 $4 \times 5 = \boxed{\$20.00}$
17. Kim:  $163 + 347 = 510$   
 Bill:  $300 \times 2 = 600$   
 Difference:  $600 - 510 = \boxed{90}$
18.  $21 \div 3 = 7$   
 $21 - 7 = \boxed{14}$
19.  $3 \times 12 + 14 = 36 + 14 = 50$  (min)
20.  $30 - 6 = 24$   
 $24 = 16 + 8$   
 $16 + 3 + 3 = \boxed{22 \text{ yrs old}}$
21. 9
22. 8
23.  $20 \times 3 - 12 - 15 = \boxed{33}$
24.  $\begin{array}{r} \square \quad 4 + 1\frac{5}{8} \\ - \quad 4 + \frac{1}{3} \\ \hline \end{array} = \begin{array}{r} \square \quad 1\frac{5}{8} \\ - \quad \frac{1}{3} \\ \hline \end{array} = 1\frac{7}{24} = 1\frac{7}{24}$
25. 64
26. 5:10 A.M. - 9:40 P.M.  
 $= 5:10 - 9:40 + 12:00$  (next day)  
 $= 17:10 - 9:40$   
 $= 7:30$   
 $= 7 \text{ hr \& } 30 \text{ min}$
27.  $\frac{3}{7} = \frac{9}{21} = \frac{12}{28}$   
 $9 + 28 = \boxed{37}$
28. 93
29.  $\frac{5}{8} = 5/8$
30.  $72000 \div 6 + 600 \div 2 + 900 \div 20$   
 $= 12000 + 300 + 45$   
 $= \boxed{12345}$
31.  $36 \div 4 = 9$   
 $9 \div 3 = 3$  in (each side of a square)  
 $3 \times 3 \times 5 = \boxed{45 \text{ in}^2}$
32. 9
33.  $13 - 5 = 8$  (length)  
 $8 - 2 - 2 = 4$  (width)  
 $8 \times 4 = 32 \text{ m}^2$  (area)
34. 150
35.  $30\frac{3}{4} - 12\frac{5}{8} = 18\frac{1}{8} = 18\frac{1}{8}$  pounds
36.  $24 \times 60 = 1440$  min  
 $1440 \times 7 = 10080$  min
37.  $60 \div 4 = 15$   
 $15 \times 3 = \boxed{45}$
38.  $14:15 - 8:55 = 5:20$   
 $(5 \text{ hr } 20 \text{ min}) \div 4 = \boxed{1 \text{ hr \& } 30 \text{ min}}$
39.  $90 + 73 + 80 = 243$   
 $243 \div 3 = \boxed{81}$
40.  $85 \times 4 = 340$   
 $340 - 243 = \boxed{97}$
41.  $16/81$
42. 1
43. 0.5
44. .005
45. 3000
46. 6
47.  $x = 4$
48.  $\frac{1}{4} = 1/4$
49.  $1\frac{3}{5}$
50. 2
51.  $4^5 \div 2^7 = 2^{10} \div 2^7 = 2^3$   
 $\square = 3$
52. 3

## MAP 260 (T1) Issue 2

53. A
54. H(-6, -6)
55.  $600 \times 0.6 = \$360$
56.  $2,400,000 \div 3,000,000 = \$0.80$
57.  $20\% : 80\% = 1 : 4 = 25 : 100$   
Saved: \$25
58. The area =  $\frac{1}{2} \times 12 \times 16$   
=  $96 = \frac{1}{2} \times h \times 20$   
 $h = 9.6$  cm
59. Let  $x$  be the number of students.  
 $3x + 5 = 4x - 21$   
 $x = 26$
60. B  
 $24 + 16 = 40$
61.  $2\frac{1}{4}$
62. 90
63.  $0.5^3 \times 0.6^3 = (0.5 \times 0.6)^3 = 0.3^3 = 0.027$
64. 0
65. 2
66.  $\frac{1}{7}$
67. 70
68. -1
69. 20  
 $12, 16, x) = 4(3, 4, 5), x = 20$ , the diameter is 20.
70. 122  
The circle has an area of  $10^2\pi = 314$ , the area of the shaded region is  
 $314 - 12 \times 16$   
=  $314 - 192$   
= 122
71. 1 yard = 3 ft  
1 sq. yard = 9 sq. ft  
 $18 \times 10 = 180$  sq. ft = 20 sq. yard  
 $15 \times 20 = \$300$

72. area = 120



73.  $(72 \div 3) \times 0.35$   
=  $24 \times 0.35$   
=  $12 \times 0.7$   
= \$8.40
74. It needs 5 pieces of casserole  
Ans = 10 eggs & 15 ounces of butter
75. What is the width of the outer rectangle?  
 $20 + 2 \times 5 = 30$   
What is the length of inner rectangle?  
 $40 - 2 \times 5 = 30$   
The area of the path:  
 $40 \times 30 - 30 \times 20 = 1200 - 600 = 600$  ft<sup>2</sup>
76.  $1000 + 200 \times 8 = 2600$   
 $2600 - 2000 \div 2000 = 30\%$
77. What part of the radio sets remains unsold after two-day sale? It is  $1 - \frac{1}{3} - \frac{1}{2} \times \frac{2}{3} = \frac{1}{3}$ . Therefore,  $\frac{2}{3}$  is sold, twice as many as the remaining ones. The number of being sold is therefore  
 $50 \times 2 = 100$
78.  $9 \times 10 \times 10 \times 5 = 4500$
79.  $\frac{1}{4}(144\pi) = 36\pi$
80.  $6 \times 40 = 240$  (in)  
1 yard = 3 ft = 36 in  
 $6 \times 36 = 216$   
 $7 \times 36 = 252$   
Ans = 7 rolls (enough)