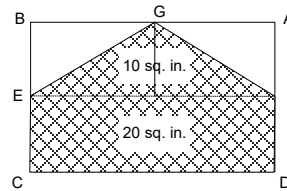


Answer Key

1. 166
2. 51
3. 9:40 A.M.
4. 4 & 625
5. 0.25
6. $12 \times 3 + 23 \times 2 = 82$
7. 4
8. 4
9. 9
10. $(9 - 8) + (7 - 6) + (5 - 4) + (3 - 2) + 1 = 5$
11. A
12. $8 + 2 = 10$
 $5 + 2 = 7$ (width)
 $10 \times 7 = \boxed{70 \text{ ft}^2}$
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. $20 \times 3 - 12 - 15 = \boxed{33}$
22.
$$\begin{array}{r} 4 + 1\frac{5}{8} \\ - 4 + \frac{1}{3} \\ \hline \end{array} = \begin{array}{r} 1\frac{5}{8} \\ - \frac{1}{3} \\ \hline \end{array} = 1\frac{7}{24} = 1\frac{7}{24}$$
23. 64
24. 5:10 A.M. - 9:40 P.M.
 $= 5:10 - 9:40 + 12:00$ (next day)
 $= 17:10 - 9:40$
 $= 7:30$
 $= 7 \text{ hr \& } 30 \text{ min}$
25. $\frac{3}{7} = \frac{9}{21} = \frac{12}{28}$
 $9 + 28 = \boxed{37}$

26. 93
27. $\frac{5}{8} = 5/8$
28. $72000 \div 6 + 600 \div 2 + 900 \div 20$
 $= 12000 + 300 + 45$
 $= \boxed{12345}$
29. $36 \div 4 = 9$
 $9 \div 3 = 3 \text{ in}$ (each side of a square)
 $3 \times 3 \times 5 = \boxed{45 \text{ in}^2}$
30. D
 $20 + \frac{1}{2}(40) = 30$



31. $100 \div 0.8 = 125$
 $125 - 100 = \boxed{\$25}$
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. Let x be the number of students.
 $3x + 5 = 4x - 21$
 $x = 26$
37. $60 \div 4 = 15$
 $15 \times 3 = \boxed{45}$
38. $14:15 - 8:55 = 5:20$
 $(5 \text{ hr } 20 \text{ min}) \div 4 = \boxed{1 \text{ hr \& } 20 \text{ min}}$
39. $90 + 73 + 80 = 243$
 $243 \div 3 = \boxed{81}$
40. $85 \times 4 = 340$
 $340 - 243 = \boxed{97}$
41. $1/12$
42. $1/4$
43. $\frac{24}{35} = 24/35$
44. $\frac{4}{7} = 4/7$
45. $\frac{8}{7} = 1\frac{1}{7} = 1\frac{1}{7}$
46. $3/4$
47. 20
48. $\frac{10}{3} \times 9 \times \frac{1}{40} = \frac{3}{4} = 3/4$

MAP 260 (T3) Issue 1

49. 9
 50. $\frac{8}{45} = 8/45$
 51. $2/19$
 52. $4/9$
 53. $5/21$
 54. $5/9$
 55. $7/29$
 56. $7/11$
 57. $8/35$
 58. $9/47$
 59. $10/19$
 60. $8/13$
 61. $120 - 120 \times (1/4) = 90$
 62. $36/12 \times 6 = 18$
 63. $2 \times 12 \times (1 - 2/3) = 8$
 64. $33/2 + 0.5 = 17$
 65. $42 \times (5/7) = 30$
 66. $72 \times (1 - 8/9) = 8$
 67. $6 \times (45/5) = 54$
 68. $25 \times (1 - 80\%) = 5$
 69. $((1 \times 100)/5) \times 5 = 100$
 70. (a) $2 \times (4 \times 3 + 3 \times 6 + 6 \times 4) = 108$
 (b) $4 \times 3 \times 6 = 72$
 71. $1/14$
 72. 21
 73. $1/16$
 74. 18
 75. $1/21$
 76. $1/32$
 77. 18
 78. 21
 79. 32
 80. $1/10$
 81. D
 $42 \div 7 = 6$
 $6 \times 3 = 18$

82. D
 $\sqrt{36 - \sqrt{121}} = \sqrt{25} = 5$
 $\sqrt{31 + 5} = 6$

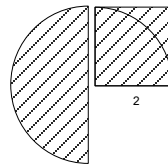
83. D
 $\frac{3}{8} - \frac{1}{4} = \frac{1}{8}$
 $\frac{1}{4} - \frac{3}{16} = \frac{1}{16}$
 $\frac{3}{16} - \frac{1}{4} = \frac{1}{16}$
 $\frac{1}{16} - \frac{15}{64} = \frac{1}{64}$

84. C

85. C
 $x = 6, y = 4$
 $x + y = \boxed{10}$

86. C
 $3.20 \div 64 = 0.05$

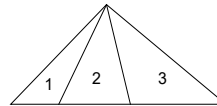
87. B
 $3\pi + (4 - \pi) = 2\pi + 4$
 or
 Move a quarter of the circle to fill the square as below. The area is
 half-circle + square = $\frac{1}{2}(4\pi) + 4 = 2\pi + 4$.



88. C

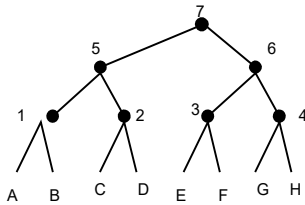
89. D
 $12 - 7 = 5$
 $5 + 3:30 - 0:45 = 7:45 = 7\frac{3}{4} \text{ hr}$
 $10 \times 7\frac{3}{4} = 77.50$

90. C
 There are
 3 smaller sized triangles: (1), (2), (3)
 2 medium sized triangles: (12), (23)
 1 large sized triangle: (123)
 $1 + 2 + 3 = 6$
 Note: (13) is not a triangle.



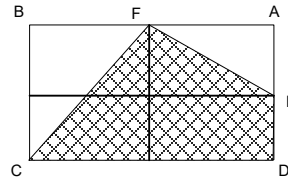
Answer Key

1. $\frac{4}{5} = 4/5$
2. 45
3. $1\frac{1}{12}$
4. $120 \div 7 = 17R1$
Ans = 17 & 1 (R)
5. 8
6. B
7. $\square = 7$
8. $\square = 8$
9. $\frac{3}{4} \times 12 = 9$ in
10. $4:45 + 50 = 5:35$
11. $500 \div 60 = 8 R 20$
Ans = 9 buses
12. $18 - 2 \times 3 = 12$
13. 36 inches
14. $5 \times 16 \times 7 = \span style="border: 1px solid black; padding: 2px;">560$
15. $9 \times 8 = \span style="border: 1px solid black; padding: 2px;">72$
16. $123 + (123 - 48) = 198$
17. $2 \times 16 + 5 \times 14 = 32 + 70 = 102$
 $102 \div 6 = \span style="border: 1px solid black; padding: 2px;">\17.00
18. $240 \div 3 = \$80$
19. $96 \div 8 = 12$
 $2(8 + 12) = \span style="border: 1px solid black; padding: 2px;">40$
20. 7 matches are needed



21. $3 \times 18 - 25 = \span style="border: 1px solid black; padding: 2px;">29$
22. $\frac{7}{24} = 7/24$
23. 2
24. 1 hr & 30 min
25. $\frac{9}{14} = 9/14$
26. 240000
27. 70
28. 240
29. $3200 \div 5\frac{1}{3} = \span style="border: 1px solid black; padding: 2px;">600 mph$

30. C
The area of the shaded region is 15 square inches, which
 $\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$ of the area of ABCD.
So, the area(ABCD) = 24 square inches.



31. $11.50 - 2 \times 3.50 = 4.50$
 $4.50 \div 3 = \span style="border: 1px solid black; padding: 2px;">\1.50
 32. $20 \times 20 \times 2 - 10 \times 10$
 $= 800 - 100$
 $= \span style="border: 1px solid black; padding: 2px;">700 in²$
 33. $800 = 2 \times 400$
 $400 = 20 \times 20$
radius = 20
 $2 \times 20 = 40$ cm (diameter)
 34. $1\frac{3}{4} \times 4 \times 3 = 21$ hours
 35. $\frac{1}{4} \times 10 = 2.5$
 $2.5 + 2.25 = 4.75$
 $10 - 4.75 = \span style="border: 1px solid black; padding: 2px;">5.25$
 36. 5
 $114 \div 2 = 57$
 $285 \div 57 = \span style="border: 1px solid black; padding: 2px;">5$
 37. $5 - 4 = 1$
 $1 \div 4 = \frac{1}{4}$
 $60 \times \frac{1}{4} = \span style="border: 1px solid black; padding: 2px;">15$
 38. $300 - 60 = 240$
 $240 \div 5 = \span style="border: 1px solid black; padding: 2px;">\48.00
- | | | |
|---|----|----|
| 2 | 24 | 64 |
| 2 | 12 | 32 |
| 2 | 6 | 16 |
| | 3 | 8 |
39. $2 \times 2 \times 2 = \span style="border: 1px solid black; padding: 2px;">8$
 40. There are 4 girls and 3 boys. From Alan's eyes, there are 2 boys, so the girls are twice the number of the boys. From Betty's eyes, there 3 girls, so there are the same number of girls and boys. $3 + 4 = \span style="border: 1px solid black; padding: 2px;">7$
 41. 78
 42. 16
 43. 6

MAP 260 (T3) Issue 2

- | | |
|---|---|
| 44. 4 | 76. 16 |
| 45. 13 | 77. 27 |
| 46. 4 | 78. $1/16$ |
| 47. 5 | 79. $1/8$ |
| 48. 8 | 80. $1/15$ |
| 49. 8 | 81. A |
| 50. 12 | $200 - 300 = -100$ |
| 51. $3/4$ | 82. D |
| 52. $4/13$ | Betty = $\frac{3}{4} = \frac{30}{40}$ |
| 53. $5/26$ | Susan = $\frac{2}{5} = \frac{16}{40}$ |
| 54. $5/14$ | Mike = $\frac{5}{8} = \frac{25}{40}$ |
| 55. $7/36$ | John = $\frac{1}{2} = \frac{20}{40}$ |
| 56. $7/18$ | 83. C |
| 57. $8/43$ | $6.8 \times 10^5 \div (2 \times 10^2) = 3.4 \times 10^3$ |
| 58. $9/56$ | 84. B |
| 59. $10/29$ | $26 \frac{3}{16} - 24 \frac{3}{8}$ |
| 60. 8 | $= 2 \frac{3}{16} - \frac{3}{8}$ |
| 61. $20 \times (1 - 45\%) = 11$ | $= 1 \frac{19}{16} - \frac{6}{16}$ |
| 62. $2 \times 12 \times (1 - 3/4) = 6$ | $= 1 \frac{13}{16}$ |
| 63. $32/2 \times 5 = 80$ | 85. B |
| 64. $21 + (25 - 29) \times (7 - 3) = 5$ | $\frac{6}{9} = \frac{2}{3}$ |
| 65. $10 / (7 - 6) \times 6 = 60$ | 86. B |
| 66. $(39 + 5) / 2 = 22$ | $6 \frac{1}{3} \div 9 \frac{1}{2} = \frac{19}{3} \div \frac{19}{2} = \frac{2}{3}$ |
| 67. $24 \times (3/8) = 9$ | 87. B |
| 68. $52 \times (3/4) = 39$ | 88. C |
| 69. $9 \times (20 + 5 + 2) = 243$ | 89. B |
| 70. $\frac{1}{8} \times 16 \times 10 = 20$ ounces | $\frac{2}{3} \times 120 = 80$ |
| 71. $1/21$ | 90. C |
| 72. 32 | $\frac{2.1}{7} = 0.3 \times 4 = 1.2$ |
| 73. $1/16$ | |
| 74. $1/18$ | |
| 75. 12 | |

Answer Key

1. $1\frac{2}{3}$
2. 45 min
3. $4:45 - 50 = 3:55$
4. 20
5. $(15 - 14) + (13 - 12) + (11 - 10) + (9 - 8) + (7 - 6) = \boxed{5}$
6. 10
7. 14
8. 320
9. 9
10. $90 - 42 = \boxed{48}^\circ$
11. $100 \div 25 = 4$
 $20 \times 4 = 80$
12. $4 \times 175 = 700$
13. LCM(8, 12) = 24
 $24 \times 5 = 120$
14. \$6.00
15. $\boxed{6}$ 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
16. $126 \div 7 = 18$ (weeks)
17. $2 \times 12 = 24$
 $\frac{1}{2} \times 12 = 6$
 $24 + 6 = \boxed{30}$
18. $8 \times 4 - 4 = 28$
19. $22 + 17 = 39$
 $39 \div 3 = \boxed{13}$
20. \$13
21. 15
22. $100 - 98 + 66 - 64 + 2 = 6$
23. 5
24. $\frac{13}{15} = 13/15$
25. $10\frac{5}{24} = 10\frac{5}{24}$
26. 286
27. 25
28. $12 = 4 \times 3$
 $15 = 5 \times 3$
The least common multiple is $3 \times 4 \times 5 = \boxed{60}$
29. $1 - 75\% = 25\%$
 $200 \times 25\% = \boxed{50}$ acres
30. $20 \times \frac{1}{5} = 4$
 $20 + 4 = \boxed{\$24}$
31. $6:15 \text{ P.M.} - 6:30 \text{ A.M.}$
 $= 18:15 - 6:30$
 $= \boxed{11\frac{3}{4} = 11\frac{3}{4} \text{ hr}}$
32. $330 \div 40 = 8\text{R}10$
 $\boxed{\text{Ans} = 9}$ boxes
33. D
1 square yard = 9 sq. ft.
34. 80
35. There are two methods to find the radius.
Method I)
 $60 \div 2 = 30$
 $30 = 10 + 20$
radius = 10
 $AB = 20$
Method II)
 $2(1 + 2) = 6$
 $60 \div 6 = 10$ (radius)

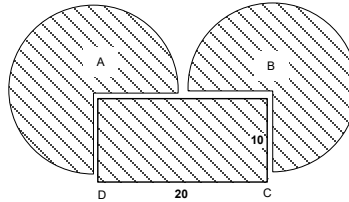
 $10^2\pi = 100\pi = 314$
 $2 \times 314 = \boxed{628 \text{ cm}^2}$
36. \$95
37. $3 \times 0.8 + 2 \times 0.95 + 2.5$
 $= 2.4 + 1.9 + 2.5$
 $= 6.8$
 $10 - 6.8 = \$3.20$
38. $64 = 8 \times 8$
 $4 \times 8 = \boxed{32 \text{ in}}$
39. 12 (cups)
40. $3.50 - 0.25 = \boxed{3.25}$
41. $\frac{10}{21} = 10/21$
42. $4\frac{1}{2} = 9\frac{2}{3} = 9\frac{2}{3}$
 $+ 5\frac{1}{6}$
43. $2\frac{7}{9} = 2\frac{7}{9}$
44. $6\frac{47}{60} = 6\frac{47}{60}$
45. $\frac{9}{14} = 9/14$
46. $\frac{11}{42} = 11/42$
47. 6

MAP 260 (T3) Issue 3

48. 1
49. $\frac{9}{25} = 9/25$
50. $\frac{9}{55} = 9/55$
51. $3/7$
52. $4/17$
53. $5/31$
54. $5/19$
55. $7/43$
56. $7/25$
57. $8/51$
58. $9/65$
59. 2
60. $9/26$
61. $36 \times (1 - 5/6) = 6$
62. $24 \times 2 + 24/3 \times 1 = 56$
63. $24 \times 2 + 24/4 \times 1 = 54$
64. $20 \times (3/4) = 15$
65. $10/2 \times 5 = 25$
66. $60 \times 2 + 60/3 \times 1 = 140$
67. $56 \times (5/4) = 70$
68. $41/2 + 0.5 = 21$
69. $60 \times 1 + 60/6 \times 1 = 70$
70. $88 \times (5/11) = 40$
71. 28
72. $1/16$
73. 15
74. $1/36$
75. 6
76. $1/24$
77. $1/28$
78. 6
79. 15
80. 24
81. C
82. C
Note the fraction in C is the only one that is greater than 1.
83. C
 $1\frac{3}{4} \times 60,000$
 $= 60,000 + 45,000$
 $= 105,000$
84. A
 $3.1 + 4.25 + 10.8 = 18.15$
85. B
 $\frac{1}{99} = \frac{1}{11} \times \frac{1}{9} = \frac{1}{11} \times (0.11111 \dots) =$
0.010101 ...
86. D
87. B
88. B
diameter = 20 inches
circumference = $20\pi = \boxed{62.8 \text{ in}}$
89. C
radius = $20 \div 2 = 10$ (inches)
area = $10^2\pi = 100\pi = \boxed{314 \text{ in}^2}$
90. C
5 cars and 15 bicycles

Answer Key

1. $\frac{35}{100} = \frac{7}{20} = 7/20$
2. 3
3. $\square = 4$
4. 4
5. $\square = 35$
6. $\square = 60$
7. $\frac{3}{4} = 3/4$
8. $24 \times 60 = 1440$ min
9. $52 + 2 - 5 = \boxed{49}$
10. $2 \times 0.75 = 1.5$
 $4 \times 0.75 = 3$
 $6 \times 0.75 = 4.5$
Ans = 6 cans only
11. $1600 \div 8 = 200$
12. $20 \times 5 = 100$
 $120 - 100 = 20$
 $20 \div 10 = 2$ (dimes)
13. $80 + 10 = 90$
 $90 \div 2 = \boxed{45}$
14. $31 \div 5 = 6R1$
Ans = 7 boxes are needed
15. $3 \times 12 \times 0.3 = \10.80
16. 4:55 am + 1:17 = 6:12 pm
17. Sat, Sun, Mon, Tue, Wed
 Wed - Sat = 4 days
 $2 \times 2 \times 2 \times 2 = 2^4 = 16$
 $6 \times 16 = \boxed{96}$ inches
18. Tom = $5 + 2 = 7$ yrs old
 Sam = $3 \times 7 = \boxed{21}$ yrs old
19. $20 \times 2 - 15 = \boxed{25}$
20. 7
21. .000006
22. 100
23. -5
24. 60
25. 60
26. $\frac{2}{3} \times 24 = 16$
27. 16
28. GCD(90, 72) = **18 teams**
29. $90 \div 18 = \boxed{5}$ boys
30. $72 \div 18 = \boxed{4}$ girls
31. A
32. If he open 3 boxes, then $3 \times 6 = 18$ (copies), which are not enough.
Ans = 4 boxes
33. GCF(45, 60, 90) = 15 (groups)
 $45 \div 15 = 3$
 $60 \div 15 = 4$
 $90 \div 15 = 6$
 $3 + 4 + 6 = \boxed{13}$
34. $30 \times 2 + 5 \times 2 + 4(15 - 5)$
 $= 60 + 10 + 40$
 $= \boxed{110}$
35. C
 radius = 10
 $\frac{3}{4} \times 2 \times 100\pi = 150\pi$
 $10 \times 20 = 200$
 $200 + 150\pi = 671$

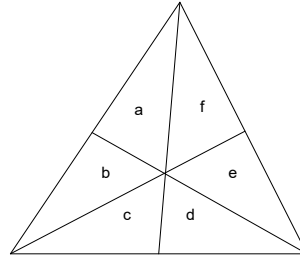


36. Julio = 15
 Erin = 30
 Kesha = 37
 Total = **82**
37. $9.45 \div 3 = \$3.15$
38. $\frac{1}{2} \times 3 \times 4 = 6$ (triangle area)
 $42 - 6 = 36$ (rectangle area)
 $36 \div 3 = 12$ cm (length of CD)
 $4 + 5 + 12 + 3 + 12 = \boxed{36}$ cm (perimeter)
39. $9,500 + 2,100 = \boxed{11,600}$
40. $360 \div 10 = 36$
 $36 = 6 \times 6$
 $6 \times 6 \times 6 = 216$
 $2 \times 216 = \boxed{432}$ in³
41. $19\frac{5}{12} = 19 \frac{5}{12}$
42. $2\frac{5}{18} = 2 \frac{5}{18}$
43. 61
44. $5\frac{3}{5} = 5 \frac{3}{5}$
45. 1/7
46. 1/3
47. 2/7
48. 4

MAP 260 (T3) Issue 4

49. 6
 50. $\frac{3}{2}$
 51. $\frac{3}{10}$
 52. $\frac{4}{21}$
 53. $\frac{5}{36}$
 54. $\frac{5}{24}$
 55. $\frac{7}{50}$
 56. $\frac{7}{32}$
 57. $\frac{8}{15}$
 58. $\frac{9}{13}$
 59. $\frac{3}{5}$
 60. $\frac{9}{25}$
 61. $50 - (50/5 \times 3) = 20$
 62. $24 + (20 - 16) \times (6 - 3) = 36$
 63. $72 / (3 + 3/5) = 20$
 64. $60 \times 0 + 60 / 3 \times 2 = 40$
 65. $64 / (1 + 7/9) = 36$
 66. $70 \times (1 - 2/5) = 42$
 67. $30 \times \frac{1}{5} = 6$
 $30 - 6 = 24$ (not ripe)
 68. $70 / (1 - 1/8) = 80$
 69. $7 \times (25/5) = 35$
 70. $110 \times (1 - 1/2) = 55$
 71. 14
 72. 15
 73. 24
 74. 14
 75. 21
 76. $\frac{1}{36}$
 77. $\frac{1}{6}$
 78. 12
 79. 36
 80. $\frac{1}{14}$
 81. B
 $\frac{1}{2} \div 3 = \frac{1}{6}$

82. C
 83. D
 $20 \div 2 = 10$
 $10 - 4\frac{1}{5} = 5\frac{4}{5}$
 84. D
 From smallest to the largest:
 6: a, b, c, d, e, f
 3: ab, cd, ef
 6: abc, bcd, cde, def, efa, fab
 1: abcdef
 total: 16



85. C
 Method I)
 $\frac{2}{5} \times 15,500,000$
 $= 0.4 \times 15,500,000$
 $= 6,200,000$
 Method II)
 $\frac{2}{5} \times 15,500,000$
 $= 2 \times 3,100,000$ (cancellation)
 $= 6,200,000$
 86. C
 87. B
 88. A
 $\frac{1}{2} \left(1 - \frac{4}{7}\right) = \frac{3}{14}$
 89. D
 $10 \times 1\frac{1}{2} = 10 \times 1.5 = 15$
 $16 \times 1\frac{1}{2} = 16 + 8 = 24$
 90. B

Answer Key

- | | |
|--|---|
| 1. 0.0024 | 33. 25 |
| 2. $\square = 3$ | 34. 300 |
| 3. 40500 | 35. 10 |
| 4. 16 | 36. 11 |
| 5. 145 | 37. 35 |
| 6. $\frac{75}{6} = \frac{25}{2} = 12\frac{1}{2} = 12\ 1/2$ | 38. 6 |
| 7. $7 \times 60 = 420$
$\frac{1}{2} \times 60 = 30$
$420 + 30 = \boxed{450 \text{ min}}$ | 39. 8 |
| 8. $1/6$ | 40. \$7.00 |
| 9. $\frac{65}{4} = \boxed{16\frac{1}{4}} = 16\ 1/4$ | 41. $7\ 7/12$ |
| 10. 50 times | 42. $11/12$ |
| 11. $(50 + 70) \times 10 = 1200$ | 43. $1\ 2/7$ |
| 12. $10 + 5 = 15$
$120 \div 15 = 8$
$2 \times 8 = \boxed{16}$ | 44. $6\ 4/9$ |
| 13. $11:30 - 1:45 = 9:45 \text{ am}$ | 45. $1\ 8/11$ |
| 14. $\frac{300}{24} = \frac{25}{2} = 12.5 = 12 \text{ min \& } 30 \text{ sec}$ | 46. $4/5$ |
| 15. Four years ago, Kirk was 6 and Jake was 12.
Jake = 16 now | 47. $1\ 4/9$ |
| 16. Sam: 18
Lee: 9
Pat: $(9 - 1) \div 4 = \boxed{2}$ | 48. $1\ 3/7$ |
| 17. Nancy = 10
Maria = 6
$6 - 3 = \boxed{3}$ | 49. 90 |
| 18. $20 - 5 = 15$
$20 + 15 = \boxed{35}$ | 50. $1\ 2/5$ |
| 19. $75 = 3 \times 25 = 5 \times 15 = \dots$, thus they are 5 and 15.
Ans = <u>15</u> | 51. $3/13$ |
| 20. 41
2 in (A) & 10 in (B) & 3 in (C) & 7 in (D) | 52. $4/25$ |
| 21. 4 | 53. $5/41$ |
| 22. 8 | 54. $6/7$ |
| 23. 4 | 55. $7/57$ |
| 24. 24 | 56. $7/39$ |
| 25. 24 | 57. $8/23$ |
| 26. 24 | 58. $9/22$ |
| 27. 24 | 59. 3 |
| 28. 0.5 | 60. $9/5$ |
| 29. 0.4 | 61. $24 / ((16/4) \times 3) = 2$ |
| 30. 0.2 | 62. $55 / 5 \times 2 = 22$ |
| 31. 1 | 63. $24 \times 2 + 24 / 4 \times 3 = 66$ |
| 32. 72 | 64. $81 \times \frac{1}{9} = 9$
$81 - 9 = 72$ (not ripe) |
| | 65. $22 / (1 - 3/5) = 55$ |
| | 66. $60 \times 0 + 60 / 5 \times 3 = 36$ |
| | 67. $42 \times (4/7) = 24$ |
| | 68. $2 \times (6^2) / 6 = 12$ |
| | 69. (a) $(2+6) / 2 = 4$
(b) $4 \times (2+6) / 2 = 16$ |
| | 70. (a) $(7+3) / 2 = 5$
(b) $8 \times (7+3) / 2 = 40$ |
| | 71. $2\frac{2}{3} \times 60 = 120 + 40 = 160 \text{ min}$ |

MAP 260 (T3) Issue 5

72. $0.85 \times 3000 = \boxed{2,550}$

73. 30

74. $.14 \times .7 = .098$

75. 15

76. 20%

77. $4\frac{1}{8} = 4\frac{1}{8}$

78. $44 \div 5 = 8R4$

$8 + 1 = \boxed{9 \text{ cars}}$

79. 30

80. Method I)

$\frac{1}{2}(5 + 35) = \boxed{20}$

Method II)

$35 - 5 = 30$

$30 \div 2 = 15$

$15 + 5 = \boxed{20}$

81. 1-round: $2 \times (13 + 23) = 72 \text{ (ft)} = 24 \text{ (yd)}$

5-round: $5 \times 24 = \boxed{120 \text{ (yd)}}$

82. $50 \div 5 = 10 \text{ cm (diameter)}$

circumference = $10\pi = 31.4 \text{ (cm)}$

five cir. = $5 \times 31.4 = \boxed{157 \text{ (cm)}}$

83. $n = 1, 6 + 2 = 8$

$n = 2, 8 + 2 = 10$

$n = 3, 10 + 2 = 12$

$n = 100, 6 + 200 = \boxed{206}$

84. $85 + 92 + 96 = 273$

$273 \div 3 = 91$

85. $93 \times 4 = 372$

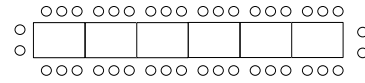
$372 - 273 = \boxed{99}$

86. $2(2 + 3) = 10 \text{ (people each table)}$

$40 \div 10 = \boxed{4 \text{ tables}}$

87. $40 - 4 = 36$

$36 \div 6 = \boxed{6 \text{ tables}}$



88. $40 - 6 = 34$

$34 \div 4 = 8 \text{ R } 2$

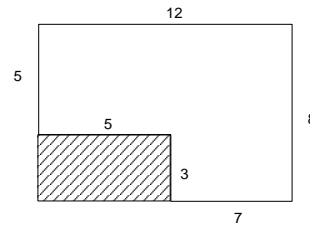
$8 + 1 = \boxed{9 \text{ tables}}$



89. $81 - 25 = 56$

$56 \div 7 = 8$

$(12 + 8) \times 2 = \boxed{40 \text{ in}}$



90. $50 \times 5\% = 50 \times .05 = \2.50

Answer Key

1. .375
2. $(560 - 500) \div 5 - 1 = 11$
3. $\frac{5}{8} = 5/8$
4. $\frac{7}{8} = 7/8$
5. 123.4
6. 20
7. $200 \div 9 = 22R2$
Ans = 22 & 2 (R)
8. 240
9. 112
10. $5 \times 12 = 60$
 $60 - 4 = 56$
 $56 \div 7 = 8$ weeks
11. $50 + 10 = 60$
 $60 \div 2 = 30$
12. $8:20 \text{ am} + 2:50 = 11:10 \text{ am}$
13. $12,436 + 10,658 = 23,094$
14. $8 \times 2 = 16$
15. C
 $24 \div 7 = 3R3$
Monday - 3 = Friday
16. $12 \times (3+4+5) = 144$
17. $137 - 122 = 15$
 $15 \div 5 = 3$ nickels
18. $100 + 8 \times (16 - 10) = 148 \text{ cm}$
19. $4 \times 6 = 24$
 $4 + 6 = 10$
20. 30
8 in (A) & 10 in (B) & 7 in (C) & 5 in (D)
21. 0.16
22. $1\frac{1}{2} + 2\frac{1}{3} = 3 + (\frac{1}{2} + \frac{1}{3}) = 3\frac{5}{6} = 3 \frac{5}{6}$
23. $6\frac{5}{6} = 6 \frac{5}{6}$
24. 123 & 4 (R)
25. 225
26. 450 (min)
27. 12
28. $\frac{13}{15} = 13/15$
29. $30 \times 8 = 240$
 $240 - 210 = \$30$
30. C
 $36 = 6 \times 6 = 4 \times 9 = 3 \times 12 = 2 \times 18 = 1 \times 36$
(6, 6) is not good as they must be different.
(4, 9) is the only answer.
Their difference is $9 - 4 = 5$.
31. $Speed_{avg} = \frac{D_{tot}}{T_{tot}} = \frac{365+245}{6+4} = 61 \text{ mph}$
32. A
 $\frac{10}{5} = 2$
 $2^2 = 4$ times
33. 50
34. { 25, 50, 100 }
35. Let
 $x = \#$ daughters
 $3x + 1 = \#$ sons
Each daughter has $x - 1$ sisters.
 $3x + 1 = 5(x - 1)$
 $2x = 6$
 $x = 3$ (daughters)
 $3x + 1 = 10$ (sons)
 $10 + 3 = 13$ (children)
36. $8 \text{ lb } 12 \text{ oz} + 8 \text{ oz} = 9 \text{ lb } \& 4 \text{ oz}$
37. 14
38. $28 \div 14 = 2$
 $98 \div 14 = 7$
 $196 \div 14 = 14$
 $2 + 7 + 14 = 23$
39. $48 \div 6 = 8$
 $2(6 + 8) = 28 \text{ in}$
40. $800 \times 15\% \times 2 = 240$
41. 7
42. 1.4
43. 0.28
44. 1485
45. $3 \frac{1}{4}$
46. $7 \frac{5}{8}$
47. $\frac{5}{6}$
48. $\frac{10}{3} = 3 \frac{1}{3}$
49. $\frac{5}{12}$
50. 0.008
51. 0.09
52. $1/9$
53. $4/9$
54. $\frac{25}{9} = 2 \frac{7}{9}$
55. 8,000
56. 900
57. 1.5

MAP 260 (T3) Issue 6

58. 0.75
59. 2.5
60. 0.025
61. 89
62. 90
63. 60
64. 45
65. 36
66. 2.7
67. 1.2
68. 2
69. 27
70. 12
71. $\frac{1}{21}$
72. 36
73. 18
74. $\frac{1}{21}$
75. $\frac{1}{20}$
76. C
91 = 7×13
It has 4 factors: 1, 7, 13, and 91.
77. A
A:B = 3:2
 $180 \times \frac{3}{5} = \boxed{108}$

78. C
 $40 \times 20 = 800 \text{ (cm}^2\text{)}$
 $10^2\pi = 100\pi = 314$
 $800 - 314 = 486$
79. C
 $8\frac{3}{4} \div 3\frac{1}{2}$
 $= \frac{35}{4} \div \frac{7}{2}$
 $= \frac{35}{4} \times \frac{2}{7}$
 $= \frac{5}{2} = 2\frac{1}{2}$
80. D
All areas = $\frac{1}{2}(5)(4) = 10$.
81. B
 $\frac{1}{4} \text{ in} = 150 \text{ mi}$
 $1 \text{ in} = 600 \text{ mi}$
 $3\frac{1}{2} \text{ in} = 2,100 \text{ mi}$
82. A
45 out of 60 = $\frac{3}{4}$, $160 \times \frac{3}{4} = 120$
83. A
 $1 + 2x = 17$
 $x = \frac{1}{2}(17 - 1)$ is not acceptable
84. A
 $1.95 + 2.25 + 1.05 = 5.25$
85. C

Answer Key

1. 150
2. $\square = 7$
3. $\square = 6$
4. $\frac{1}{3} = \frac{5}{15}$
 $1 \times 15 + 5 = \boxed{20}$
5. $\square = 80$
6. 12
7. 13
8. $\frac{5}{6} = 5/6$
9. $\frac{2}{3} = 2/3$
10. 50
11. $3 \times 12 \div 2 = \boxed{18 \text{ inches}}$
12. $10 + 20 = 30$
 $20 + 30 = \boxed{50}$
13. $21 \div 0.3 = 70$
14. $27 \div 3 = \boxed{9 \text{ yd}}$
15. $6 \times 4 \times 2.25 = \54
16. $24 - 6 = 18$
 $18 \div 2 = 9$
 $9 - 3 = \boxed{6 \text{ yrs old}}$
17. $3(3 + 5 + 7) = \boxed{45}$
18. 4 hr & 50 min
19. $5.00 + 4(3.00) = \boxed{\$17.00}$
20. 23
3 in (A) & 10 in (B) & 6 in (C) & 4 in (D)
21. $0.4 = 40\%$
22. 4
23. 9
24. $\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times 144 = \boxed{360}$
25. $4\frac{13}{24} = 4 \frac{13}{24}$
26. $5/7$
27. $A = 56$
28. $882 \div 9 = 98$
29. $1/21$
30. $750 \div 50 = \boxed{1.5 \text{ gal per sec}}$
31. $600 \div 1.5 = 400 \text{ sec} = \boxed{6 \text{ min } 40 \text{ sec}}$
32. Brian:
 $\frac{1}{10} \times 300 = 30$
 $50 + 30 = 80$
33. C
Alex: $\frac{1}{6} \times 300 = 50$
Brian: 80
Calvin:
 $300 - 50 - 80 = 170$
 $170 \div 2 = 85$
 $85 + 10 = \boxed{95}$
34. $54 - 15 - 3 \times 9 = 12$
 $\frac{1}{2} \times 12 \times 9 = 54$
 $54 + 9^2 = \boxed{135}$
35. 63 lb 8 oz - 36 lb 9 oz
 $= \boxed{26 \text{ lb \& } 15 \text{ oz}}$
36. $10 \times 10 = 100$ (square area)
 $\frac{1}{2}(20 \times 10) = 100$
 $x = \boxed{10 \text{ in}}$
37. A = 1
B = 5
C = 3
D = 7
 $1535 \times 5 = 7675$
 $C + D = 3 + 7 = \boxed{10}$
38. $3.25 \times 200 = 650$
 $15.75 \times 6 = 94.5$
 $650 + 94.5 = \boxed{\$744.50}$
39. $343 \div 7 = \$49.00$
40. $35 \times 4 = 140$
 $140 - 50 = 90$
 $90 \div 3 = \boxed{30 \text{ pounds}}$
41. 92
42. 46
43. 23
44. 37
45. 93
46. 62
47. 31
48. 94
49. 47
50. 63
51. 12
52. 8
53. 20
54. 16
55. 27
56. 2
57. 1.6
58. 80

MAP 260 (T3) Issue 7

- 59. 120
- 60. 80
- 61. $1\frac{2}{3}$
- 62. $\frac{7}{10}$
- 63. $\frac{13}{15}$
- 64. 4
- 65. $\frac{7}{12}$
- 66. 105
- 67. 24
- 68. 60
- 69. 75
- 70. $\frac{9}{14}$
- 71. $\frac{1}{16}$
- 72. $\frac{1}{24}$
- 73. 28
- 74. 14
- 75. 27
- 76. $\frac{1}{28}$
- 77. 10
- 78. $\frac{1}{18}$
- 79. $\frac{1}{36}$
- 80. 14

- 81. C
 $1\frac{1}{2} = \frac{3}{2}$
 $(\frac{3}{2})^2 = \frac{9}{4} = 2\frac{1}{4}$
- 82. A
 $13 + 64 - 10 = 67$
- 83. A
 $10 \div \frac{2}{3} = 10 \times \frac{3}{2} = 15$
- 84. B
- 85. D
- 86. D
 $90 + 40 = 130$
 $x = \frac{1}{2}(130) = 65$
- 87. C
 $273 = 3 \times 91 = 3 \times 7 \times 13$
- 88. B
 $8 + 2x = 24$
 $x = \frac{1}{2}(24 - 8)$ is not acceptable
- 89. C
 $2 \times 60 = 120$
 $120 \div 20 = 6$
 $6 \times 6 = 36$
- 90. B

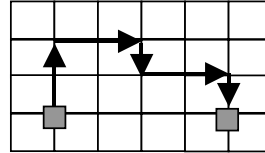
Answer Key

1. 24
2. $\frac{3}{4} \times 16 = 12$ oz
3. $\frac{1}{20} = 1/20$
4. $\square = 108$
5. 40
6. 10,000,000
7. 2005
8. 10 quarters
9. $\square = 80$
10. $\frac{4}{7} = 4/7$
11. 7 quarters = \$1.75
 $7 \times 3 = \boxed{21}$
12. $10 - 2.3 \times 3 = 10 - 6.9 = \3.10
13. $300 \div 15 = \boxed{20}$
14. B
 $90 \div 12 = 7R6$
 $7 + 1 = 8$
It should be Sunday.
15. $2 \times 4 \times 10 = 80$
16. $2(1:45) = 2:90 = 3:30$
 $9:35 + 3:30 = 13:05 = 1:05$ pm
17. $1200 \times 5 = 6000$
18. $8 \times .5 = 4$
 $5 - 4 = \$1.00$
19. $576 \div 4 = 144$ inches = 12 ft (each side)
 $12 \div 3 = 4$
 $4 \times 4 = \boxed{16 \text{ yd}^2}$
20. 23
8 in (A) & 7 in (B) & 3 in (C) & 5 in (D)
21. 0.034
22. 8
23. $2/3$
24. $\frac{13}{20} = 13/20$
25. $104\frac{1}{12} = 104 \frac{1}{12}$
$$\begin{array}{r} \square \quad 3\frac{2}{3} \\ + \quad 100\frac{5}{12} \\ \hline 103\frac{13}{12} = 104\frac{1}{12} \end{array}$$
26. $\frac{25}{9} = \left(\frac{5}{3}\right)^2 = \left(1\frac{2}{3}\right)^2$
 $a = \boxed{2}$
27. 12449
28. 7
 $1^2 = 1, 2^2 = 4, \dots, 7^2 = 49$
29. $30 \div 2.5 = 12$ packets
30. $3 \times 10 = 30$ (total)
 $30 - (10 + 12) = 8$ years old (Charlie)
31. D
32. $80 \div 4 = 20$
 $20^2 = 400 \text{ ft}^2$
 $10^2\pi = 314 \text{ ft}^2$
 $400 - 314 = \boxed{86 \text{ ft}^2}$
33. $401 \div 5 = 80R1$
R = 1
34. $\frac{1}{2} \times 6 \times 12 = 36$
 $6 \times 6 = 36$
 $x = 6$
35. $40\% \times 20 = .4 \times 20 = 8$
36. $720 \div 12 = 60$
 $60 + 50 + 50 = \boxed{160}$
37. C
Nancy: 46 sec
Jennifer: 45 sec
Alex: 50 sec
Joy: 45.8 sec
38. $24 \div 3 = 8$ rows
 $15 \div 3 = 5$ columns
 $8 \times 5 = \boxed{40}$ (plates)
39. $14 \div 3\frac{1}{2} = \boxed{4}$
40. $12 \div \frac{1}{3} = \boxed{36}$
41. 27
42. 21
43. 95
44. 38
45. 96
46. 64
47. 48
48. 32
49. 24
50. 97
51. 4.8
52. 2.4
53. 3.2
54. 3.2
55. 20
56. 200
57. 30
58. 63

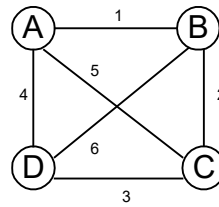
MAP 260 (T3) Issue 8

59. 160
 60. 450
 61. 40
 62. 40
 63. 100
 64. 126
 65. 78
 66. 23
 67. 19
 68. 30
 69. 12
 70. 48
 71. $\frac{1}{15}$
 72. $\frac{1}{36}$
 73. 14
 74. $\frac{1}{24}$
 75. $\frac{1}{36}$
 76. 14
 77. 12
 78. 28
 79. 18
 80. $\frac{1}{12}$
 81. D
 82. C
 $2 \times \frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$
 83. D
 84. B
 $63 - (-4) = 67$

85. C
 21, 25
 12, 10
 52, 50
 86. A
 $20 \div 3\frac{1}{3}$
 $= 20 \div \frac{10}{3}$
 $= 20 \times \frac{3}{10} = 6$
 87. C
 88. D



89. B
 $6 \div \frac{3}{4} = 8$
 90. C
 There are six games.



Answer Key

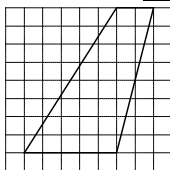
1. 0.0075
2. 5,000,067,900
3. $48 + 8 = 56$
4. \$20
5. 20,000
6. 9
7. $(3^3)^3 = 3^9$
 $\square = 9$
8. $7^{\frac{1+4}{8}} = 7^{\frac{5}{8}} = 7 \frac{5}{8}$
9. 4
10. $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$
 $\frac{5}{6}(5280) = 5 \times 880 = \boxed{4400}$
11. $(7 - 3) - (5 - 3) = 7 - 5 = 2$
12. $10 + 8 = 18$
 $18 + 6 = \boxed{24}$ (yrs old)
13. $20 - 2 \times 4 = 12$
14. $3.5 \div 5 = \$0.70$
15. Method I)
 $65 - 25 = 40$
 $40 \div 2 = \boxed{\$20.00}$

Method II)

$$65 + 25) \div 2 = 45$$

$$65 - 45 = \$20.00$$

16. $2 \times 16 + 8 = 40$ (oz)
 $4.00 \div 40 = \$0.10$
17. $28 \div 2 = 14$
18. top = 2
base = 5
height = 8
area = $\frac{1}{2}(2+5)(8) = \boxed{28}$



19. $10 - 5 + 10 = 15$
20. $40 \div 2 = 20$
 $20 - 11 = \boxed{9}$
21. 0.5
22. 3
23. $1 \frac{3}{10}$
24. 36
25. $\frac{7}{5} \div \frac{49}{15} = \frac{7}{5} \times \frac{15}{49} = \frac{3}{7} = 3/7$

26. $\frac{23}{30} = 23/30$
27. $\frac{3}{7} = \frac{9}{21}$
 $A = \boxed{9}$
28. 12350
29. 8 (in)
30. $13 \times 3 = 39$
 $10 \times 2 = 20$
 $39 - 20 = \boxed{19}$
31. the area of $A = 464 - 20^2 = 64 = 8^2$
the perimeter of $A = 4 \times 8 = 32$ in
32. 24
33. A
34. $1 = 1$
 $3 = 1+2$
 $6 = 1+2+3$
 $10 = 1+2+3+4$
 $1 + 3 + 6 + 10 = 20$
35. $0.24 \times 1.5 \times 0.5$
 $= 0.24 \times 0.75$
 $= 0.06 \times (4 \times 0.75)$
 $= \boxed{0.18}$
36. $30 + 5^2 = \boxed{55}$

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

37. 385
See the following table.

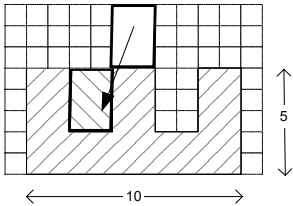
	increment from the previous night	#nickels
1 st night	$1 = 1^2$ +	1
2 nd night	$4 = 2^2$ +	5
3 rd night	$9 = 3^2$	14
4 th night	$16 = 4^2$	30
5 th night	$25 = 5^2$	55
6 th night	$36 = 6^2$	91
7 th night	$49 = 7^2$	140
8 th night	$64 = 8^2$	204
9 th night	$81 = 9^2$	285
10 th night	$100 = 10^2$	385

38. B
 $2.94 \div 10 = 0.294$ (per ounce)
 $1.56 \div 6 = 0.26$ (per ounce)
 $\boxed{6\text{-oz cheaper}}$
39. $0.75 \times 2 = 1.5$
 $1.5 - 1.25 = \$0.25$

MAP 260 (T3) Issue 9

40. $(4 \div 2) \times 1.39 = 2.78$
 $4 \times 0.9 = 3.6$
 $3.6 - 2.78 = \$0.82$
41. 65
42. 39
43. 98
44. 49
45. 28
46. 99
47. 66
48. 33
49. 22
50. 100
51. 4.5
52. 72
53. 300
54. 36
55. 40
56. 10
57. 21
58. 2.7
59. 54
60. 140
61. 36
62. 52
63. 105
64. 10
65. 27
66. 18
67. 12
68. 39
69. 60
70. 84
71. $1/32$
72. 14
73. $1/15$
74. 20
75. $1/18$
76. $1/21$
77. 32
78. $1/10$
79. $1/21$
80. $1/20$
81. 1 hr & 15 min
82. 9
83. $8 + 9 + 4 = 21$
84. $\frac{10}{9} \div \frac{5}{3} = \frac{10}{9} \times \frac{3}{5} = \frac{2}{3}$
 $(2/3)^2 = 4/9$
85. $1/9$
86. A
87. $1 \frac{5}{12} = 1 \ 5/12$
88. $70 \div 2 = 35$ dimes = \$3.50
89. $2,100 \div 5 \times 2 = \boxed{840}$
90. 200

Answer Key

1. B
2. 82
3. 1,002,304
4. $4 \frac{1}{16}$
5. $(10+20+30+40) - (9+19+29+39)$
 $= (10 - 9) + (20 - 19) + (30 - 29) + (40 - 39)$
 $= 4$
6. $10 + 1 = \boxed{11}$
7. 8
8. True
9. $53 \times 3 - 43 \times 3 = 10 \times 3 = 30$
10. 8 quarters = \$2 = 20 dimes
11. $36 = 6 \times 6$
 $4 \times 6 = 24$
 $24 \div 3 = \boxed{8 \text{ in}}$
12. $17 - 5 = 12$
 $12 \div 2 = \boxed{6 \text{ yrs old}}$
13. $8 + 7 + 6 = \boxed{21}$
14. 6
15. 24 yrs old
16. Jon = 10
 Ken = 20
17. 1 yard = 3 feet = 36 in
 $36 - 1 = \boxed{35 \text{ cuts}}$
18. In three years,
 P = 30, Q = 10
 At present,
 P = 27, Q = 7
19. $0.4 \times 5 = 2$
 $4.4 - 2 = 2.4$
 $2.4 \div 2 = \boxed{\$1.20}$
20. $10 \times 5 - 3 \times 2 = 44$

21. 10
22. 8 & 3 (R)
23. 2
24. $9^3 = (3^2)^3 = (3^3)^2 = 27^2$
 $\square = 2$
25. 23
26. $\frac{5}{24} = 5/24$
27. A = 39
28. 31
29. $8 \times 4 = 32$
30. $120 \div 40 = 3$
 1 min 30 sec = 1.5 min
 $3 \times 1.5 = \boxed{4.5 \text{ min}}$
31. $300 \div 40 = \frac{15}{2}$
 $\frac{15}{2} \times 1\frac{1}{2} = \frac{15}{2} \times \frac{3}{2} = \frac{45}{4} = 11\frac{1}{4} = 11 \text{ min \& } 15 \text{ sec}$
32. $38 \div 2 = 19$ (half-perimeter)
 $19 - 10 = 9$
 $10 \times 9 = \boxed{90 \text{ in}^2}$
33. D = 5
 C = 10
 B = $10 + 2 = 12$
 A = $12 + 6 = \boxed{18}$
34. A
35. 125%
36. $1 = 1$
 $3 = 1+2$
 $6 = 1+2+3$
 $12 = 1+2+3+6$
 $1 + 3 + 6 + 12 = 22$
37. $8 \times 6 = 48$
 $\frac{1}{2} \times 48 = \boxed{24 \text{ in}^2}$
38. Method I)
 $12.5 + 2 \times 7.25$
 $= 12.5 + 14.5$
 $= \boxed{27}$
 Method II)
 $12\frac{1}{2} + 2 \times 7\frac{1}{4}$
 $= 12\frac{1}{2} + 14\frac{1}{2}$
 $= 27$
39. 80
40. $50 + 75 = 125$
 $50 + 125 = 175$
 $175 \times 2 = \boxed{\$350}$
41. 50
42. 40
43. 25
44. 67
45. 101
46. 29
47. 102
48. 68

MAP 260 (T3) Issue 10

- | | |
|--|--|
| 49. 51 | 71. 10 |
| 50. 34 | 72. 6 |
| 51. 180 | 73. $1/20$ |
| 52. 32 | 74. 10 |
| 53. 540 | 75. $1/27$ |
| 54. 3.6 | 76. 32 |
| 55. 36 | 77. 10 |
| 56. 5.6 | 78. 18 |
| 57. 48 | 79. $1/16$ |
| 58. 8.1 | 80. $1/18$ |
| 59. 18 | 81. $\frac{25}{2} = 12\frac{1}{2}$ |
| 60. 360 | 82. $6+8+\square+1 = 15+\square$
$\square = 3$ |
| 61. $35 \times 1\frac{1}{5}$ [Split]
$= 35 \times (1 + \frac{1}{5})$ [Multiply]
$= 35 + 7$ [Add]
$= 42$ | 83. 6 |
| 62. $63 + 7 = 70$ | 84. $\frac{2}{3} = 2/3$ |
| 63. $56 + 8 = 64$ | 85. $\square = 7$ |
| 64. $78 + 13 = 91$ | 86. 16 |
| 65. $136 + 17 = 153$ | 87. 2 |
| 66. $120 + 12 = 132$ | 88. $\text{LCM}(15, 25) = 75$
$5 \times 60 \div 75 = \boxed{4}$ |
| 67. $112 + 16 = 128$ | 89. $60 \div 15 \times 5 = 20$
$60 \times 5 \div 25 = 12$
$20 + 12 - 4 = \boxed{28}$ |
| 68. $90 + 54 = 144$ | 90. $\frac{1}{\frac{1}{4} + \frac{1}{6} + \frac{1}{12}} = \frac{1}{1/2} = 2 \text{ hrs}$ |
| 69. $81 + 9 = 90$ | |
| 70. $102 + 85 = 187$ | |