

# Answer Key

1. 1737
2. 2075
3. 2088
4. 2889
5. 3906
6. 4800
7. A=1, B=4
8. A=2, B=5
9. A=3, B=6
10. A=2, B=9
11. 8 R 2
12. 5 R 3
13. 22 & 1 (remainder)
14. 26 R 1
15. 16 R 2
16. 8
17. 1.32
18. 2.52
19. 1.72
20. 3.27
21. 41.76
22. 2.508
23. 8.091
24. 8.714
25. 70.038
26. 0.5
27. 0.25
28. 0.75
29. 0.125
30. 0.375
31.  $\frac{75}{100} \xrightarrow{\div 5} \frac{15}{20} \xrightarrow{\div 5} \frac{3}{4}$
32.  $0.8 = \frac{4}{5} = 4/5$
33.  $0.24 = \frac{24}{100} = \frac{6}{25} = 6/25$
34.  $0.25 = \frac{25}{100} = \frac{1}{4} = 1/4$
35.  $0.36 = \frac{36}{100} = \frac{9}{25} = 9/25$
36. A
37. C
38. A
39. C
40. C
41. 5
42. 4
43. 15
44. 2
45. 12
46. 5
47. 15
48. 2
49. 4
50. 20
51.  $\frac{1}{2}(19 + 23) = 21$
52.  $\frac{1}{2}(80 + 90) = 85$
53.  $60+66+69 = 195$   
 $195 \div 3 = 65$
54.  $174 \div 3 = 58$  marbles
55.  $4 \times 4.25 = \$17$
56.  $21.91 - 4 \times 3.5 = \$7.91$
57.  $\frac{40+2}{2} = 21$  (Dana)
58.  $\frac{120-20}{2} = 50$
59.  $60+66+69 = 195$   
 $165 \div 3 = 65$
60. D
61. 50
62. 20
63. 15
64. 7
65. 30

# Answer Key

1. 0.91
2. 2.34
3. 2.55
4. 3.45
5. 1.97
6. 41.76
7. 2.508
8. 8.091
9. 8.714
10. 70.038
11. 432
12. 392
13. 702
14. 756
15. 870
16. 408
17. 560
18. 713
19. 768
20. 3404
21. 26
22. 23
23. 18 & 2 (remainder)
24. 50 & 1 (remainder)
25. 75 & 2 (remainder)
26. 4.6
27. 1.5
28. 5.875
29. 5.125
30. 1.375
31.  $7 \times 2 = 14$ ,  $14 + 1 = 15$ , so  $7\frac{1}{2} = \frac{15}{2}$
32.  $16 \div 3 = 5$  R 1, so  $\frac{16}{3} = 5\frac{1}{3}$
33.  $1 = \frac{6}{6}$   $\square = 6$
34.  $2 = 1\frac{5}{5}$   $\square = 5$
35.  $6 = 4\frac{6}{3}$   $\square = 6$
36.  $2 \times 7 = 14$
37.  $9 \times 7 = 63$
38.  $100 \times 3.60 / 120 = 3$
39. (a)  $12 \times (5/6) = 10$   
(b)  $(2+5/6) \times 12 = 34$
40. A
41. (a)  $32/8 = 4$   
(b)  $21/7 = 3$
42.  $45 \times \frac{8}{9} = 40$
43. (a) 25.12 inches  
(b) 50.24 sq. inches
44. (a) 0.628 inches  
(b) 0.0314 sq. inches
45.  $90 - 55 = 35$
46.  $54 \times \frac{2}{9} = 12$
47.  $3 \times 55 = 165$
48. (a)  $300 / (9 + 1) \times 9 = 270$   
(b)  $300 / (9 + 1) = 30$
49. (a)  $(26 - 4) / 2 = 11$   
(b)  $(26 + 4) / 2 = 15$
50. (a)  $63 \times 2 / (2 + 7) = 14$   
(b)  $63 \times 7 / (2 + 7) = 49$
51.  $(2 \times 16 - 27) = 5$
52.  $2 \times 11 - 8 = 14$
53. (a)  $6 / 2 = 3$   
(b)  $3 \times (6 / 2) = 9$
54. (a)  $(49 + 5) / 2 = 27$   
(b)  $(49 - 5) / 2 = 22$
55.  $140 - 58 = 82$
56.  $3 + 1 = 4$   
 $48 \div 4 = 12$  (Nathan)  
 $12 \times 3 = 36$  (Mark)
57. 13 yrs old (son) & 43 yrs old (father)

Father	Son
60	30
17 years ago	
43	13

58.  $50 \div (4 + 1) = 10$  (E in 8 years)  
 $10 \times 4 = 40$  (F in 8 years)  
(a)  $10 - 8 = 2$  (E now)  
(b)  $40 - 8 = 32$  (F now)
59.  $4 \times 5 \times 6 \times 12.5 = 15 \times 8 \times 12.5 = 15 \times 100$   
 $= \underline{\$1500}$
60.  $3 \times 0.8 + 2 \times 0.95 + 2.5 = 2.4 + 1.9 + 2.5 = 6.8$   
 $10 - 6.8 = \underline{\$3.20}$
61.  $2,000 \div 4 = 500$
62.  $4 \times 500 = 2,000$  packages
63. C
64. A

## MAP 245 (T2) Issue 8

65.  $1+3+2+4+7+1 = 18$

$18 \div 6 = 3$

$3 \times 500 = 1,500$

66. 15

67. 30

68. 18

69. 8

70. 40

# Answer Key

1. 1141
  2. 1308
  3. 1519
  4. 2135
  5. 2919
  6. 4332
  7. A=4, B=1
  8. A=2, B=6
  9. A=4, B=6
  10. A=6, B=6
  11. 3 & 4 (remainder)
  12. 9 & 2 (remainder)
  13. 14 & 2 (remainder)
  14. 13 R 3
  15. 15 R 1
  16.  $170-61 = 109$
  17.  $6 \times 7 = 42$
  18. (a)  $6 \times 2 = 12$   
(b)  $7 \times 2 = 14$   
(c)  $2 \times 8 = 16$
  19. (a)  $60 \times (3/4) = 45$   
(b)  $60 \times (3/4) = 45$
  20.  $10.00 - 2 \times 4.50 = 1$
  21.  $(16+34)/2 = 25$
  22. D
  23. (a)  $28/4 = 7$   
(b)  $32/8 = 4$
  24. (a) 52 (b) 38 (c) H
  25. (a)  $63 \times (8/9) = 56$   
(b)  $63 \times (1 - 8/9) = 7$
  26.  $90 - 55 = 35$
  27.  $2 \times 8/8 = 2$
  28. (a)  $5+2+5 = 12$   
(b)  $5 \times 2 \times 5 = 50$
  29.  $21 \times \frac{2}{7} = 6$
  30.  $50 \times 2 = 100$
  31.  $2 \times 30 = 60$
  32. (a)  $320/(7+1) \times 7 = 280$   
(b)  $320/(7+1) = 40$
  33. (a)  $78 \times 4/(4+9) = 24$   
(b)  $78 \times 9/(4+9) = 54$
  34.  $(2 \times 50 - 69) = 31$
  35.  $6 \times (12/9) = 8$
  36. 0.92
  37. 3.93
  38. 1.17
  39. 2.98
  40. 4.28
  41. 5.523
  42. 70.56
  43. 7.131
  44. 24.38
  45. 3.2
  46.  $1 \frac{1}{2}$
  47.  $2 \frac{3}{4}$
  48.  $1 \frac{1}{4}$
  49.  $4 \frac{4}{5}$
  50.  $4 \frac{3}{5}$
- $$\begin{array}{r} 5 \ .2 \ 5 \\ 4 \ )2 \ 1 \ .0 \\ \underline{2 \ 0} \\ 1 \ 0 \\ \underline{8} \\ 2 \ 0 \\ \underline{2 \ 0} \\ 0 \end{array}$$
51.  $\frac{21}{4} = 5.25$
  52.  $5.25 = 5 \frac{25}{100} = 5 \frac{1}{4}$
  53.  $8.12 = 8 \frac{12}{100} = 8 \frac{3}{25} = 8 \frac{3}{25}$
  54.  $9.8 = 9 \frac{8}{10} = 9 \frac{4}{5}$
  55.  $10.24 = 10 \frac{24}{100} = 10 \frac{6}{25} = 10 \frac{6}{25}$
  56.  $0.3 = \frac{3}{10} = 3/10$
  57.  $0.3 = \frac{6}{10} = \frac{3}{5} = 3/5$   
(Remember to reduce it to the lowest terms.)
  58.  $\frac{25}{100} = \frac{1}{4} = 1/4$   
Reduce your result.
  59.  $6.3 - 4.75 = \boxed{1.55 \text{ cm more}}$
  60.  $\frac{3}{8} + \frac{1}{4} + \frac{1}{16} = \frac{11}{16} = 11/16$
  61.  $21 + 3 = 24$  (Quin)  
 $24 \div 3 = 8$  (Rachel)
  62.  $4.50 \times 2 = 9$   
 $2 \times 9 = 18$   
 $20 - 18 = \$2$
  63.  $\frac{1}{3} \times 5280 = 1760$  feet
  64.  $10 - 3 \times 2.5 = 10 - 7.5 = \$2.50$

## MAP 245 (T2) Issue 9

65.  $100 + 8 \times 60 = \$580$

66.  $\Delta \div 7 = 12 \Rightarrow \Delta = 84$

67.  $\square \times 4 = 28 \Rightarrow \square = 7$

68.  $\square \div 4 = 28 \Rightarrow \square = 112$

69.  $\square + 12 = 17 \Rightarrow \square = 5$

70.  $2 \times \square + 3 = 15 \Rightarrow 2 \times \square = 12 \Rightarrow \square = 6$

71. 18

72. 40

73. 12

74. 60

75. 9