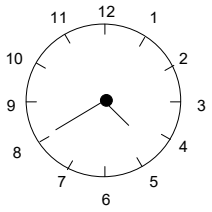
# Answer Key

1. 3
2. 10
3. 9
4. 15
5. 6
6. 3
7. 4
8. 24
9. 4
10. 12
11. 7
12. 6
13. 8
14. 14
15. 16
16. 4
17. 24
18. 6
19. 10
20. 8
21. 2
22. 7
23. 3
24. 20
25. 42
26. 7
27. 12
28. 2
29. 32
30. 7
31. 12 - (4 + 1) = 7 more miles
32. 17 + 3 = 20
    20×2 = 40
    40 - 3 = 37 yrs old
33. 40÷20 = 2
    2×2 = 4 gallons
34. 200×2 = $400
35. 600×3 = $1800
36. 5×2 = 10 sq. inches
37. 8 vertices
38. 20×20 = 400 (square area)
    10×30 = 300 (rectangle area)
    Ans = A
39. 276÷3 = 92
40. 21×6 = 126 min
41. 81 - 53 = 28
42. 121 - 46 = 75
43. {312, 200, 217, 156 }
44. 450 + 530 = 980
    980÷20 = <u>49 teachers</u>
45. 13×2 = 26
    13 + 26 = 39 points
46. 3×12 = 36
    $\frac{1}{3}$×12 = 4
    36 + 4 = 40 inches
47. 36÷3 = 12 (Mary)
    12×2 = 24 (Susan)
48. 51×2 = 102 words
    102×5 = 510 words (Michael)
49. 2 + 8 = 10
    4×10 + 2 = $42.00
50. 2:35 - 0:15 = 2:20 P.M.
51. 15×3 = 45
    15 + 45 = <u>60</u>
52. 4×31 = 124 meals
53. 2×1 + 1 = 3
    2×3 + 1 = 7
    2×7 + 1 = 15
    2×15 + 1 = <u>31</u>
    2×31 + 1 = <u>63</u>
    Ans = 31 & 63
54. 1×5 = 5
    5×5 = 25
    25×5 = 125
    125×5 = 625
55. 35 - 7.5 - 21 - 2 = 4.5
    4.5÷3 = $1.50
56. 390 - 130 = 260
    260÷130 = 2
    2×4 = 8 weeks
57. 10 - 3 = 7 (now)
    7 - 3 = 4 (3 years ago)
58. 2×18 = 36
    36 - 4 = 32
59. 2001 - 1992 + 20= 29

60. 3 sisters
61. 15÷5 = 3
    3×3 = $9.00
62. 21 - 4 = 17
    2×17 + 2 = 36
63. 60
64. 2000
65. 53 - 5 = 48 (Cheryl)
    48÷2 = 24 (Cindy)
66. 8×4 = 32
67. 8:15 - 7:20 = 55 min
68. 400×0.7 = 280
69. 6:45 + 1:45 = 8:30 P.M.
70. 57 - 25 = 32
    32 ÷4 = 8 friends

# Answer Key

1. 1400
2. 9,000
3. 1,000
4. 7.2
5. 0.14
6. 0.018
7. $\frac{1}{5}$ = 1/5
8. 240 ÷ 6 = 40
9. 0.07
10. 0.06
11. 3
12. 3087
13. 24 & 3 (remainder)
14. 5
15. 10
16. 25%
17. 75%
18. $\frac{5}{12}$
19. $\frac{1}{6}$
20. 556
21. 170-85 = 85
22. 7× 7 = 49
23. (a) 8×2 = 16
    (b) 9×2 = 18
    (c) 2×3 = 6
24. (a) 60×(3/4) = 45
    (b) 60×(3/4) = 45
25. 10.00-3×2.00 = 4
26. (43+27)/2 = 35
27. D
28. (a) 42/6 = 7
    (b) 36/9 = 4
29. (a) 52 (b) 54 (c) J
30. (a) 35×(4/7) = 20
    (b) 35×(1 -4/7) = 15
31. 90 -59 = 31
32. 2×10/5 = 4
33. (a) 7+2+2 = 11
    (b) 7×2×2 = 28
34. 24 × $\frac{3}{4}$ = 18
35. 60×4 = 240
36. 3×35 = 105
37. (a) 400/(9+ 1)×9 = 360
    (b) 400/(9+ 1) = 40
38. (a) 45×4/(4+6) = 18
    (b) 45×6/(4+6) = 27
39. (2×50-74) = 26
40. 5×(12/3) = 20
41. 5
42. 6 & 1 (remainder)
43. 4.39
44. $\frac{7}{10}$
45. 0.4
46. 2100÷15 =$\frac{2100}{15}$ = $\frac{700}{5}$= 140= 140
47. 54
48. 3:30 + 1:10 = 4:40




49. 4 – 3 = 1
50. 1246 – 879 = 367
51. 1200 ÷ 3 = 400
    400 – 360 = 40 (mi)
52. 12.50×2 = 25 (2nd day)
    25×2 = 50 (3rd day)
    12.5 + 25 + 50 = $87.50
53. 4702 – 578 = 4124
54. 4×4.5 = 18
    18÷6 = 3
55. 7 + 6 = 13
56. 165 ÷ 5 = 33 mi
57. N
58. 6 – 3 + 10 – 2 + 4 = 15
59. 4×7 = 28
60. 47 – 25 = 22
61. 167
62. 16 $\frac{4}{7}$
63. $\frac{1}{16}$
64. 0.25

65. $12 \times 3 + 23 \times 2 = 82$
66. 4
67. 4
68. 9
69. $(9 - 8) + (7 - 6) + (5 - 4) + (3 - 2) + 1 = 5$
70. 51
71. 9:40 A.M.
72. $8 + 3 = 11$
    $5+2 = 7$ (width)
    $11 \times 7 =$ $77\ ft^2$
73. $\frac{1}{2} \times 50 = 25$
    $25 + 50 =$ 75
74. What is the width?
    $8 - 2 - 2 = 4$
    What is the length?
    $10 + 4 - 6 = 8$
    Thus, the area is
    $8 \times 4 =$ $32\ in^2$.
75. 12,059
76. $12 \div 3 = 4$
    $4 \times 5 =$ \$20.00
77. Kim: $163 + 347 = 510$
    Bill: $300 \times 2 = 600$
    Difference: $600 - 510 =$ 90
78. $21 \div 3 = 7$
    $21 - 7 =$ 14
79. $3 \times 12 + 14 = 36 + 14 = 50$ (min)
80. $30 - 6 = 24$
    $24 = 16 + 8$
    $16 + 3 + =$ 19 yrs old
81. C
82. D
83. B
84. C
85. C

# Answer Key

1. 556
2. 3
3. .0006
4. .016
5. .01
6. 0.252
7. 8.3
8. 24 & 3 (remainder)
9. 9
10. 1/3
11. 15
12. 56
13. .09
14. 100
15. 15
16. 14,000
17. 88.9
18. 462
19. 140%
20. 20
21. $\frac{3}{2}$ = 3/2
22. $\frac{2}{5}$ = 2/5
23. ¼ = 1/4
24. A = 12
25. $\frac{3}{8}\times 24 = 9$
26. 0.06
27. 18
28. 500
29. 120÷2 = 60
    60÷3 = 20 (width)
    20×2 = 40 (length)
    20÷2 = 10 (radius)
    $10^2\pi$ = 314
    2×314 = 628 (two circles)
    20×40 = 800
    800 – 628 = 172
30. 10 – 6 = 4 (height)
    4×6 = 24 in$^2$
31. 60÷2 = 30
    30 – 20 = 10
    20×10 = 200 in$^2$
32. 12×25000
    = 3×4×25000
    = 3×100000
    = 300,000
33. B
34. 3.25
35. 120÷12 = 10
    2(12 + 10) = 44 ft
36. 40×12.25 = 490
37. 195÷32½
    = 195÷32.5
    = $60 per hour
38. 360÷60 = 6
39. 20×3×2 = $120
40. 1, 2, 3, 4, 6, and 12 are the factors of 12. Their sum is
    1 + 2 + 3 + 4 + 6 + 12
    = 28
41. 0.4 = 40%
42. 4
43. 9
44. $\frac{3}{2}\times\frac{4}{3}\times\frac{5}{4}\times 144$ = 360
45. $4\frac{13}{24}$ = 4 13/24
46. 5/7
47. A = 56
48. 882 ÷ 9 = 98
49. 10
50. 750÷50 = 1.5 gal per sec
51. 600÷1.5 = 400 sec = 6 min 40 sec
52. Brian:
    ⅒×300 = 30
    50 + 30 = 80
53. C
    Alex: ⅙×300 = 50
    Brian: 80
    Calvin:
    300 – 50 – 80 = 170
    170÷2 = 85
    85 + 10 = 95
54. 54 – 15 – 3×9 = 12
    ½×12×9 = 54
    54 + $9^2$ = 135
55. 63 lb 8 oz – 36 lb 9 oz
    = 26 lb & 15 oz

56. $10\times10 = 100$ (square area)
$\frac{1}{2}(20\times\mathbf{10}) = 100$
$x$ = 10 in

57. A = 1
B = 5
C = 3
D = 7
$1535\times5 = 7675$
C + D = 3 + 7 = 10

58. $3.25\times200 = 650$
$15.75\times6 = 94.5$
650 + 94.50 = \$744.50

59. $343 \div 7 =$ \$49.00

60. $35\times4 = 140$
$140 - 50 = 90$
$90\div3$ = 30 pounds

61. 10 matches needed
RY, RG, RB, RW,
YG, YB, YW,
GB, GW, and
BW.

62. D
$5\times0.5 = 2.5$
$50\div2.5 = 20$

63. $42.15\div3 = 14.05$
$14.05\times5 =$ \$70.25

64. $50\div(2 + 3) = 10$
$10\times2\times40 = 800$ times

65. $1\frac{1}{4}:2\frac{1}{2} = 1:2$
$3\times2 = 6$ cups

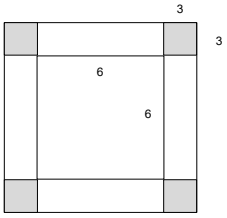
66. Julio =15
Erin = 30
Kesha = 37
Total = 82

67. (a) $47 - 3 - 14 - 1 - 14 = 15$
(b) $97 - 47 = 50$ B.C.

68. $6849 - 6750 = 99$

69. $10\times10\times10\times10 = 10{,}000$

70. $144 = 12^2$
$144 - 108 = 36$
$36\div4 = 9$
$9 = 3^2$
$12 - 2\times3 = 6$
$6\times6\times3 = 108$ in$^3$




71. $144\div24 = 6$ gal

72. $1 - \frac{1}{2} = \frac{1}{2}$ (one half left)
$\frac{1}{2} - \frac{1}{3} = \frac{1}{6}$
30 pages account for $\frac{1}{6}$ of the book.
$30\div\frac{1}{6} = 180$ pages

73. The decrease of 8 fewer pencils results in a difference of
8.45 – 6.05 = 2.40.
Each pencil costs
2.40 ÷ 8 = 0.30.
Therefore, 2 dozen pencils cost
24×0.30 = 7.20
We conclude that a pen cost
8.45 – 7.20 = \$1.25

74. D
$3\times4 = 12$
$2(3 + 4) = 14$

75. $11\frac{9}{10} \div 2\frac{1}{3}$
$= \frac{119}{10} \div \frac{7}{3}$
$= \frac{119}{10} \times \frac{3}{7}$
= 5.1 hour
= 5 hours & 6 minutes

76. 1 square yard = (3 feet)$^2$ = 9 ft$^2$
36 square yard
= $36\times9$ ft$^2$
= 324 ft$^2$

77. 2 hr 36 min = 2.6 hr
$\frac{130}{2.6}$ = 50 mph

78. $\frac{3(pure)}{7(alcohol)} = \frac{\Delta(pure)}{56(alcohol)}$
$\Delta = 24$

79. $21 - 2 = 19$

80. $10\div\frac{1}{3} = 30$

# Answer Key

1. 20×3 = 60 (wheels if all tricycles)
   68 – 60 = 8 (falling short from reality)
   8 ÷ (4 – 3) = 8 (sedans)
   20 – 8 = 12 (tricycles)
2. $\frac{80-64}{80}$ = 0.2 = 20%
3. 5×☐ = 3.5
   ☐ = 3.5÷5 = $0.70
4. There are four places ___ ___ __ __ to fill up. So, there are 26×26×10×10 = 67600 combinations.
5. 54÷3 = $18.00 (each hour Friday, better)
   60÷4 = $15.00 (each hour Saturday)
6. -15 + 8 – 2 = -9
7. 7.5×36=$270
8. 40×8 + 5×12
   = 320 + 60
   = $380
9. 550 – 40×10 = 150
   150÷15 = 10
   10 + 40 = 50
10. C
    B: 0.17
    J: 55% = 0.55
    N: 0.57
    U: $\frac{1}{5}$ = 0.2
    Great Britain, United States, Japan, The Netherlands
11. Outbound: 210/60 = 3.5 hours
    Inbound: 210/70 = 3 hours
    3.5 + 3 = 6.5 hours
12. 150÷60×10 = 150÷5 = 25
13. $\frac{\#\text{correct questions}}{\#\text{total questions}} = \frac{12}{\#\text{total questions}}$ = 80%
    total = 15
14. 1 min = 60 sec = 3(20)
    30×3 = 90 words (per min)
    90×10 = 900 words
15. $\frac{12.75}{3}$×5 = $21.25
16. 5×4×3×2×1 = 120 ways
17. 4.25×4 = 17 (books)
    17+4.25 = 21.25
    21.25 + 7.35 = $28.60
18. $\frac{1}{2}$(56°) = 28°
19. B
    $\frac{5550}{5551} = 1 - \frac{1}{5551}$
    $\frac{9998}{9999} = 1 - \frac{1}{9999}$
    Since $\frac{1}{5551} > \frac{1}{9999}$,
    A < B
20. price : discount
    = 80% : 20%
    = 4 : 1
    = $124 : $31
    Ans = $31 (discount)
21. -2
    The larger one is 9.
22. A
    4.68/32 ≒ $0.14 (32-ounce cheaper)
    5.39/30 ≒ $0.17
23. $\frac{1}{2}$×0.4 = 0.2
    0.2×1.5 = 0.3
    0.3×(1 – 0.5) = 0.3×0.5 = 0.15
24. 420÷2 = 210
    210×3 = 630 cups
25. 12÷3 = 4
    4×(3 + 2) = 20
26. 1.5 million/30 million = 1.5/30 (million is canceled) = 0.05 = 5%
27. 7π = 21.98
28. 13 – 10 = 3
    1 – $\frac{2}{3}$ = $\frac{1}{3}$ (left)
    3÷$\frac{1}{3}$ = 3×3 = 9 (weight of the water in the full capacity)
    13 – 9 = 4 (weight of the container)
29. Method I)

| #Right | Raw Score | Deduction | Actual Score |
|---|---|---|---|
| 20 | 100 | 0 | 100 |
| 19 | 95 | 2 | 93 |
| 18 | 90 | 4 | 86 |
| 17 | 85 | 6 | 79 |
| 16 | 80 | 8 | **72** |
| 15 | 75 | 10 | 65 |

    Method II)
    100 – 72 = 28
    28÷7 = 4
    20 – 4 = 16 (questions right)

30. $\frac{3}{8}$, $\frac{4}{8}$, and $\frac{5}{8}$
Ans = 3&4&5 (list the numerators only)

31. 3 + 39 = 42
42×9 = 378

32. $\frac{98-50}{50}$ = 0.96 = 96%

33. $\frac{1}{12} \times \frac{1}{45} = \frac{1}{540}$
Ans = 540 bees

34. A
How much play money did each one have before the 3rd game?

| | at 3rd game | Reverse | at 2nd game | Reverse | at 1st game | Reverse | Start |
|---|---|---|---|---|---|---|---|
| Alex | 24 | - 12 | 12 | -6 | 6 | +33 | **39** |
| Ben | 24 | -12 | 12 | **+30** | 42 | -21 | **21** |
| Carl | 24 | **+24** | 48 | -24 | 24 | -12 | **12** |

So, Alex lost the most (-$15).
Brian (+$3)
Carl (+$12)

35. 5×4 = 20

36. 15÷90 = $\frac{1}{6}$, 1 out of 6 is defective
20×$\frac{1}{6}$ = 20 defectives

37. A
If two of the statements are false and one statement is true, then Kim and Jim lied, Tim told the truth.
⇒ Kim took the cookie.

38. 2

39. $1^2$ =1, $2^2$ = 4, …, $7^2$ = 49, $14^2$ = 196
Ans = 14 (perfect squares)

40. $(\frac{2}{3} + \frac{1}{2})\div 2 = \frac{7}{12}$ = 7/12

41. 0.0004

42. 36

43. 110

44. .098

45. 0.089

46. $\frac{14}{3}$ = 14/3

47. $2^9 = 8^3$

48. -4

49. $x$ = 9

50. $\frac{7}{10}$ = 7/10

51. $\begin{array}{r} 30\frac{1}{15} \\ 10\frac{5}{15} \\ +\ 20\frac{9}{15} \\ \hline 60\frac{15}{15}=61 \end{array}$ = 61

52. $x^{12}$
□ = 12

53. 54×2 = 108
54×$\frac{1}{9}$ = 6
108 + 6 = 114

54. 6×5÷2 = 15 chords

55. 60×5% = 60×0.05 = 3
60+ 3 = $63.00

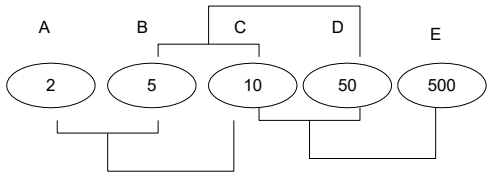
56. $\frac{1}{2}$×6×8 = 24

57. ΔABC = 30 = $\frac{1}{2}$×BH×AC = $\frac{1}{2}$×BH×13
BH = $\frac{60}{13}$ = 60/13

58. 63.75÷5 = $12.75

59. 19

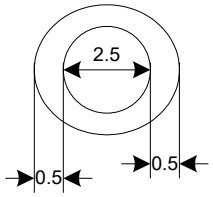
60. 567 (cards)
See the following figure.




2+5+10+50+500 = 567

# Answer Key

1. $\frac{4}{9}$ = 4/9
2. 1
3. $\frac{4}{5}$ = 4/5
4. .001
5. 0.027
6. (2-1) + (4-3) + (6-5) + (8-7) + (10-9) = 5
7. $2.1^2 = 4.41$
8. 314×5 = 1570
   3.14×0.05
   four decimal places altogether)
   = 0.1570 = 0.157
9. $x = 4$
10. $\frac{1}{7}+\frac{1}{3}\div\frac{49}{30}=\frac{1}{7}+\frac{10}{49}=\frac{17}{49}$ = 17/49
11. $2^{10}\div 2^3 = 2^7$
    □ = 7
12. 0.000125
13. -112
14. $2\frac{5}{12}$ = 2 5/12
15. 2.5 + 2×0.5 = 3.5 in



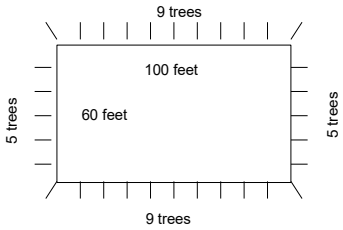

16. 90- 72 = 18
    18 ÷ 90 = .2 = 20%
17. 60°
18. 64 = 8×8
    8×4 = 32 in
19. 3×4.5 = 13.5 ($cm^2$)
20. $\frac{1}{2}$(12×5) = 30
21. $\frac{1}{10}$ = 1/10
22. -9
23. 1.1
24. .064
25. .002
26. 10,000
27. 250%
28. 30%×24 = 7.2 = 7 hr & 12 min
29. 35%
30. 16
31. 4.5
32. $5\times\frac{17}{60}-\frac{1}{6}=\frac{15}{12}=1\frac{1}{4}$ = 1 1/4
33. 156 = 26×6
    130 = 26×5
    LCM = 26×6×5 = 780
34. $6\frac{19}{48}$ = 6 19/48
35. 40÷ 8 = 5
    3×5×5 = 75 $in^2$
36. 9×3 = 27 (sum)
    27 – 5 – 11 = 11 (Charles)
37. $11^2\pi - 10^2\pi = 21\pi$ = 21 pi
38. 60°
39. 300÷20 = 15
40. 18÷60 = 0.3 (hr)
    80×0.3 = 24 mi
41. 5
42. .00009
43. $1\frac{2}{3}\div 3\frac{3}{4}=\frac{5}{3}\times\frac{4}{15}=\frac{4}{9}$ = 4/9
44. 3
45. -4 = $t$ + 7
    $t$ = -3
46. $x$ = -5
47. Multiplying 6 to both sides, we get
    30 – 2(2$x$-3) = 3(3$x$-1)
    30 – 4$x$+6 = 9$x$ -3
    36-4$x$ = 9$x$-3
    13$x$ = 39
    $x$ = 3
48. 17÷25 = 0.68 = 68%
49. 200 – 80 = 120
    120 ÷ 30 = 4
    4 + 1 = 5 (min)
50. C
    80+(M-1)×30 = 30M+50
51. 72
52. 3 + 2 = 5
    $\frac{3}{5}\times 90° = 54°$ (larger)
    $\frac{2}{5}\times 90° = 36°$ (smaller)
    180 – 54 = 126
    180 – 36 = 144
    126:144 = 7:8
53. D
    4×4×5 + 16π = 80 + 16π

54. B
$4\times4 + 8\pi = 16 + 8\pi$

55. $52\div4 = 13$
$18 - 13 = 5$
What is the width of the rectangle?
$13^2 - 5^2 = 12^2$
The height is 12 ft.
Thus, the area =
$13\times12 = 156$ ft$^2$

56. $2\times2\times2 = 8$

57. $9+5+9+5 = 28$ trees
On the corners, there are 4 trees.
$28 + 4 = 32$ (total)



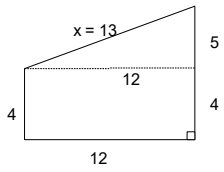

58. 15:72 = 5:24

59. $10\times10\times2 = 200$ in$^2$

60. time = $\frac{\text{distance}}{\text{speed}} = \frac{10}{6}\times60 = 100$ min

# Answer Key

1. 0.6
2. 4.9
3. $12 = 2^2\times3$
   $54 = 2\times3^2$
   $12^3\times54^2 = (2^2\times3)^3(2\times3^2)^2 = 2^8\times3^9$
   $a = 8, b = 9$
   Ans = 8 (for a) & 9 (for b)
4. $\frac{16}{5}\div\frac{4}{3} = \frac{16}{5}\times\frac{3}{4} = \frac{12}{5} = 12/5$
5. $2^{12}\div2^6 = 4^3$
   Ans = 3
6. 8
7. ½ = 1/2
8. $\frac{153}{3}$= 51 (mph)
   $51\times5\frac{2}{3}$ = 289 mi
9. S∩T = {3, 5, 6, 9, 10, 12, 15, 18, 20}
   # S∩T = 9
10. $64\times4 = 256$ in$^2$
11. 3 yard 1 foot = 3⅓ yard
    $5\times3\frac{1}{3}\times3$ = \$50
12. $0.65\times60\times12$ = \$468
13. 35:65 = 7:13 = 140:260
    Ans = \$260
14. $600\div24 = 25$ ft
15. 84
16. $\frac{3}{5}\times90° = 54°$
    $180 – 54 = 126°$
17. $12{,}500\times\frac{0.32}{100}$
    $= 125\times0.32$
    $= 125\times8\times0.04$
    $= 40$
    $40\times3$ = \$120
18. $40 – 16 = 24$
    $40\times12 = 480 = 24\times20$
    20 – 12 = 8 days longer
19. $\frac{1}{2}\times10\times7 = 35$
20. $84\div(5+7+9) = 4$
    $5\times4 = 20$ (Alice)
    $9\times4 = 36$ (Catty)
    $7\times4 = \underline{28}$ (Brenda)
21. $.027^{-\frac{2}{3}} = (0.3)^{3\times-\frac{2}{3}} = 0.3^{-2} = 0.09^{-1} = \frac{1}{0.09} = \frac{100}{9} = 11\frac{1}{9}$
    = 11 1/9
22. $\frac{x}{4} + \frac{y}{3} = 1$
    Ans = 4 (for a) & 3 (for b)
23. $x = 90$
24. 1-2+3-4+5 = 1 + (-2+3) + (-4+5) = 3
    $S = \frac{1}{2}-\frac{1}{4}+\frac{1}{8}-\frac{1}{16}+\frac{1}{32}$
    $2S = 1-\frac{1}{2}+\frac{1}{4}-\frac{1}{8}+\frac{1}{16}$
    $3S = 1+\frac{1}{32} = \frac{33}{32}$
    $S = \frac{11}{32}$
    Ans= $3\frac{11}{32}$ = 3 11/32
25. $2^8 = 4^4$
    □ = 4
26. A
    $\frac{3+\sqrt{2}}{3-\sqrt{2}}\times\frac{3+\sqrt{2}}{3+\sqrt{2}} = \frac{(3+\sqrt{2})^2}{7} = \frac{11+6\sqrt{2}}{7}$
27. D
    $$\frac{x}{-3}+\frac{y}{5} = 1$$
28. $2.16\times10^{14}$
    Ans = 2.16 (for a) & 14 (for b)
29. $x = 13$
    See the following diagram.




30. $\frac{8(8-3)}{2} = 20$
31. C
32. \$260 ÷ 40 = 6.5
33. C
34. 80¢ + 9×30¢ = 350¢ = \$3.50
35. 11 min
36. ½(100 – 3×14) = 29
37. C
38. A
    60÷5 = 12 (sec)
    12÷6 = 2 sec
39. C
    11 = 10 + 1
    10÷5 = 2 (min)
    1×2 = 2
    2×60 + 2 = 122
40. Let $x$ be the side of a square. The rectangle has a length of $4x$, and a width of $x$. Therefore, the rectangular perimeter is $2(4x+x) = 10x$, which is 80 cm.
    Area of a square: 8×8 = 64
    Total area = 256 cm$^2$

# MAP 280 (T1) Issue 3

41. C
    $500\times1\frac{1}{2}\% + 250\times1\%$
    $= 7.5 + 2.5$
    $= 10$
42. $20
43. D
44. C
45. C
46. B
    $24 : 10 : \square$
    $= 12 : 5 : 13$
    $\square = 26$
47. B
    8 lb 12 oz)÷7
    = (7 oz 28 oz)÷7
    = 1 lb 4 oz
    = 1.25 lb
48. C
49. C
50. D
51. $3\times4\times5 = 60$
52. D
53. A
    $27 \div 1.8 = 15.00$
54. B
55. A
56. 0.75
57. A
58. D
59. D
    Draw ten parallelogram.
60. C