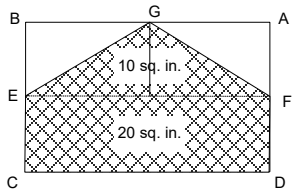
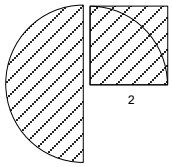
Answer Key

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)
    $10\times7 =$ $\boxed{70\ ft^2}$
13. $\frac{1}{2}\times50= 25$
    $25 + 50 =$ $\boxed{75}$
14. What is the width?
    $8 - 2 - 2 = 4$
    What is the length?
    $10 + 4 - 6 = 8$
    Thus, the area is
    $8\times4 =$ $\boxed{32\ in^2}$.
15. 12,059
16. $12\div3 = 4$
    $4\times5 =$ $\boxed{\$20.00}$
17. Kim: $163 + 347 = 510$
    Bill: $300\times2 = 600$
    Difference: $600 - 510 =$ $\boxed{90}$
18. $21\div3 = 7$
    $21 - 7 =$ $\boxed{14}$
19. $3\times12 + 14 = 36 + 14 = 50$ (min)
20. $30 - 6 = 24$
    $24 = 16 + 8$
    $16 + 3 + 3 =$ $\boxed{22\ yrs\ old}$
21. $20\times3 - 12 - 15 =$ $\boxed{33}$
22. $\dfrac{4+1\frac{5}{8}}{-\ 4+\ \frac{1}{3}} = \dfrac{1\frac{5}{8}}{-\ \frac{1}{3}} = 1\frac{7}{24} = 1\ 7/24$
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 hr & 30 min
25. $\frac{3}{7} = \frac{9}{21} = \frac{12}{28}$
    $9+28 =$ $\boxed{37}$
26. 93
27. $\frac{5}{8} = 5/8$
28. $72000\div6 + 600\div2 + 900\div20$
    $= 12000+300+45$
    $=$ $\boxed{12345}$
29. $36\div4 = 9$
    $9\div3 = 3$ in (each side of a square)
    $3\times3\times5 =$ $\boxed{45\ in^2}$
30. D
    $20 + \frac{1}{2}(40) = 30$

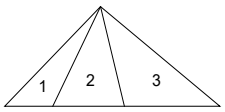


31. $100\div0.8 = 125$
    $125 - 100 =$ $\boxed{\$25}$
32. 9
33. $13 - 5 = 8$ (length)
    $8 - 2 - 2 = 4$ (width)
    $8\times4 = 32\ m^2$ (area)
34. 150
35. $30\frac{3}{4} - 12\frac{5}{8} = 18\frac{1}{8} = 18\ 1/8$ pounds
36. Let x be the number of students.
    $3x + 5 = 4x - 21$
    $x = 26$
37. $60\div4 = 15$
    $15\times3 =$ $\boxed{45}$
38. $14:15 - 8:55 = 5:20$
    $(5\ hr\ 20\ min)\div4 =$ $\boxed{1\ hr\ \&\ 20\ min}$
39. $90+73+80 = 243$
    $243\div3 =$ $\boxed{81}$
40. $85\times4 = 340$
    $340 - 243 =$ $\boxed{97}$
41. 1/12
42. 1/4
43. $\frac{24}{35} = 24/35$
44. $\frac{4}{7} = 4/7$
45. $\frac{8}{7} = 1\frac{1}{7} = 1\ 1/7$
46. 3/4
47. 20
48. $\frac{10}{3}\times 9 \times \frac{1}{40} = \frac{3}{4} = 3/4$

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×(1/4) = 90
62. 36/12×6 = 18
63. 2×12 ×(1 -2/3) = 8
64. 33/2 + 0.5 = 17
65. 42×(5/7) = 30
66. 72×(1 -8/9) = 8
67. 6×(45/5) = 54
68. 25×(1 -80%) = 5
69. ((1×100)/5)×5 = 100
70. (a) 2×(4×3+3×6+6×4) = 108
    (b) 4×3×6 = 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÷7 = 6
    6×3 = 18
82. D
    $\sqrt{36-\sqrt{121}} = \sqrt{25} = 5$
    $\sqrt{31+5} = 6$
83. D
    ⅜ - ¼ = $\frac{1}{8}$
    $\frac{1}{4}-\frac{3}{16}=\frac{1}{16}$
    $\frac{3}{16}-\frac{1}{4}=\frac{1}{32}$
    $\frac{1}{4}-\frac{15}{64}=\frac{1}{64}$
84. C
85. C
    x =6, y =4
    $x + y$ = $\boxed{10}$
86. C
    3.20÷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 = ½(4π) + 4 = 2π + 4.

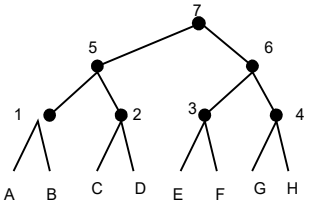


88. C
89. D
    12 - 7 = 5
    5 + 3:30 - 0:45 = 7:45 = 7¾ hr
    10×7¾ = 77.50
90. C
    There are
    3 smaller sized triangles: (1), (2), (3)
    2 medium sized triangles: (12), (23)
    1 large sized triangle: (123)
    1 + 2 + 3 = 6
    Note: (13) is not a triangle.

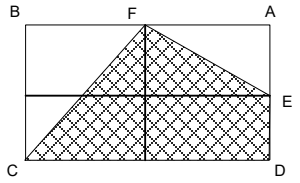


Answer Key

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



21. 3×18 – 25 = 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÷5⅓ = 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 - 2×3.50 = 4.50
    4.50 ÷ 3 = $1.50
32. 20×20×2 - 10×10
    = 800 - 100
    = 700 in²
33. 800 = 2×400
    400 = 20×20
    radius = 20
    2×20 = 40 cm (diameter)
34. 1¾×4×3 = 21 hours
35. ¼×10 = 2.5
    2.5 + 2.25 = 4.75
    10 - 4.75 = 5.25
36. 5
    114÷2 = 57
    285÷57 = 5
37. 5 – 4 = 1
    1÷4 = ¼
    60×¼ = 15
38. 300 - 60 = 240
    240÷5 = $48.00

2	24	64
2	12	32
2	6	16
	3	8

39. 2×2×2 = 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 = 7
41. 78
42. 16
43. 6

44. 4
45. 13
46. 4
47. 5
48. 8
49. 8
50. 12
51. 3/4
52. 4/13
53. 5/26
54. 5/14
55. 7/36
56. 7/18
57. 8/43
58. 9/56
59. 10/29
60. 8
61. $20\times(1-45\%) = 11$
62. $2\times12\times(1-3/4) = 6$
63. $32/2\times5 = 80$
64. $21+(25-29)\times(7-3) = 5$
65. $10/(7-6)\times6 = 60$
66. $(39+5)/2 = 22$
67. $24\times(3/8) = 9$
68. $52\times(3/4) = 39$
69. $9\times(20+5+2) = 243$
70. $\frac{1}{8}\times16\times10 = 20$ ounces
71. 1/21
72. 32
73. 1/16
74. 1/18
75. 12
76. 16
77. 27
78. 1/16
79. 1/8
80. 1/15
81. A
    $200-300 = -100$
82. D
    Betty = $\frac{3}{4} = \frac{30}{40}$
    Susan = $\frac{2}{5} = \frac{16}{40}$
    Mike = $\frac{5}{8} = \frac{25}{40}$
    John = $\frac{1}{2} = \frac{20}{40}$
83. C
    $6.8\times10^5 \div (2\times10^2) = 3.4\times10^3$
84. B
    $26\frac{3}{16} - 24\frac{3}{8}$
    $= 2\frac{3}{16} - \frac{3}{8}$
    $= 1\frac{19}{16} - \frac{6}{16}$
    $= 1\frac{13}{16}$
85. B
    $\frac{6}{9} = \frac{2}{3}$
86. B
    $6\frac{1}{3}\div9\frac{1}{2} = \frac{19}{3}\div\frac{19}{2} = \frac{2}{3}$
87. B
88. C
89. B
    $\frac{2}{3}\times120 = 80$
90. C
    $\frac{2.1}{\frac{7}{4}} = 0.3\times4 = 1.2$

Answer Key

1. 1 2/3
2. 45 min
3. 4:45 - 50 = 3:55
4. 20
5. (15 - 14) + (13 - 12) + (11 - 10) + (9 - 8) + (7 - 6)
   = 5
6. 10
7. 14
8. 320
9. 9
10. 90 - 42 = 48°
11. 100÷25 = 4
    20×4 = 80
12. 4×175 = 700
13. LCM(8, 12) = 24
    24×5 = 120
14. $6.00
15. 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

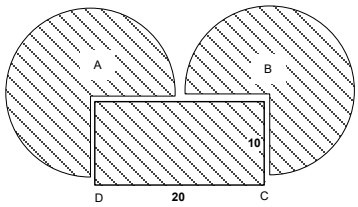
16. 126÷7 = 18 (weeks)
17. 2×12 = 24
    $\frac{1}{2}$×12 = 6
    24 + 6 = 30
18. 8 × 4 - 4 = 28
19. 22 + 17 = 39
    39÷3 = 13
20. $13
21. 15
22. 100 - 98 + 66 - 64 + 2 = 6
23. 5
24. $\frac{13}{15}$ = 13/15
25. $10\frac{5}{24}$ = 10 5/24
26. 286
27. 25
28. 12 = 4×3
    15 = 5×3
    The least common multiple is 3×4×5 = 60
29. 1 - 75% = 25%
    200×25% = 50 acres
30. 20×⅕ = 4
    20 + 4 = $24
31. 6:15 P.M. - 6:30 A.M.
    = 18:15 - 6:30
    = 11¾ = 11 3/4 hr
32. 330÷40 = 8R10
    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÷2 = 30
    30 = 10 + 20
    radius = 10
    AB = 20
    Method II)
    2(1 + 2) = 6
    60÷6 = 10 (radius)

    $10^2\pi = 100\pi = 314$
    2×314 = 628 cm²
36. $95
37. 3×0.8 + 2×0.95 + 2.5
    = 2.4 + 1.9 + 2.5
    = 6.8
    10 - 6.8 = $3.20
38. 64 = 8×8
    4×8 = 32 in
39. 12 (cups)
40. 3.50 - 0.25 = 3.25
41. $\frac{10}{21}$ = 10/21
42. $\begin{array}{r} 4\frac{1}{2} \\ +\ 5\frac{1}{6} \\ \hline \end{array} = 9\frac{2}{3}$ = 9 2/3
43. $2\frac{7}{9}$ = 2 7/9
44. $6\frac{47}{60}$ = 6 47/60
45. $\frac{9}{14}$ = 9/14
46. $\frac{11}{42}$ = 11/42
47. 6

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×(1 -5/6) = 6
62. 24×2+ 24/3×1 = 56
63. 24×2+ 24/4×1 = 54
64. 20×(3/4) = 15
65. 10/2×5 = 25
66. 60×2+ 60/3×1 = 140
67. 56×(5/4) = 70
68. 41/2 + 0.5 = 21
69. 60×1+ 60/6×1 = 70
70. 88×(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
    1¾×60,000
    = 60,000 + 45,000
    = 105,000
84. A
    3.1 + 4.25 + 10.8 = 18.15
85. B
    $\frac{1}{99} = \frac{1}{\mathbf{11}} \times \frac{1}{9} = \frac{1}{\mathbf{11}} \times (0.11111 \ldots) =$ 0.010101 …
86. D
87. B
88. B
    diameter = 20 inches
    circumference = 20π = 62.8 in
89. C
    radius = 20÷2 = 10 (inches)
    area = $10^2\pi = 100\pi$ = 314 in^2
90. C
    5 cars and 15 bicycles

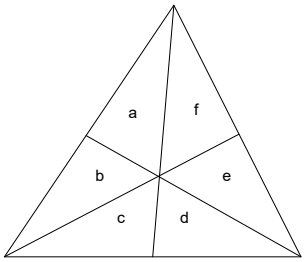
Answer Key

1. $\frac{35}{100}=\frac{7}{20}$ = 7/20
2. 3
3. ☐ = 4
4. 4
5. ☐ = 35
6. ☐ = 60
7. $\frac{3}{4}$ = 3/4
8. 24×60 = 1440 min
9. 52 + 2 - 5 = 49
10. 2×0.75 = 1.5
    4×0.75 = 3
    6×0.75 = 4.5
    Ans = 6 cans only
11. 1600 ÷ 8 = 200
12. 20×5 = 100
    120 - 100 = 20
    20÷10 = 2 (dimes)
13. 80 + 10 = 90
    90 ÷ 2 = 45
14. 31÷5 = 6R1
    Ans = 7 boxes are needed
15. 3×12×0.3 = $10.80
16. 4:55 am + 1:17 = 6:12 pm
17. Sat, Sun, Mon, Tue, Wed
    Wed - Sat = 4 days
    2×2×2×2 = 2^4 = 16
    6×16 = 96 inches
18. Tom = 5 + 2 = 7 yrs old
    Sam = 3×7 = 21 yrs old
19. 20×2 - 15 = 25
20. 7
21. .000006
22. 100
23. -5
24. 60
25. 60
26. $\frac{2}{3}$×24 = 16
27. 16
28. GCD(90, 72) = 18 teams
29. 90÷18 = 5 boys
30. 72÷18 = 4 girls
31. A
32. If he open 3 boxes, then 3×6 = 18 (copies), which are not enough.
    Ans = 4 boxes
33. GCF(45, 60, 90) = 15 (groups)
    45÷15 = 3
    60÷15 = 4
    90÷15 = 6
    3 + 4 + 6 = 13
34. 30×2 + 5×2 + 4(15 - 5)
    = 60 + 10 + 40
    = 110
35. C
    radius = 10
    ¾×2×100π = 150π
    10×20 = 200
    200 + 150π = 671



36. Julio = 15
    Erin = 30
    Kesha = 37
    Total = 82
37. 9.45÷3 = $3.15
38. ½×3×4 = 6(triangle area)
    42 - 6= 36 (rectangle area)
    36÷3 = 12 cm (length of CD)
    4+5+12+3+12 = 36 cm (perimeter)
39. 9,500 + 2,100 = 11,600
40. 360 ÷ 10 = 36
    36 = 6×6
    6×6×6 = 216
    2×216 = 432 in^3
41. $19\frac{5}{12}$ = 19 5/12
42. $2\frac{5}{18}$ = 2 5/18
43. 61
44. $5\frac{3}{5}$ = 5 3/5
45. 1/7
46. 1/3
47. 2/7
48. 4

49. 6
50. 3/2
51. 3/10
52. 4/21
53. 5/36
54. 5/24
55. 7/50
56. 7/32
57. 8/15
58. 9/13
59. 3/5
60. 9/25
61. 50- (50/5×3) = 20
62. 24+ (20-16)×(6- 3) = 36
63. 72/(3+3/5) = 20
64. 60×0+ 60/3×2 = 40
65. 64/(1+7/9) = 36
66. 70×(1 -2/5) = 42
67. $30 \times \frac{1}{5} = 6$
    30 - 6 = 24 (not ripe)
68. 70/(1 -1/8) = 80
69. 7×(25/5) = 35
70. 110×(1 -1/2) = 55
71. 14
72. 15
73. 24
74. 14
75. 21
76. 1/36
77. 1/6
78. 12
79. 36
80. 1/14
81. B
    ½÷3 = ⅙
82. C
83. D
    20÷2 = 10
    10 - 4⅕ = 5⅘
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)
    $\frac{2}{5} \times 15{,}500{,}000$
    = 0.4×15,500,000
    = 6,200,000

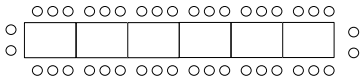
    Method II)
    $\frac{2}{5} \times 15{,}500{,}000$
    = 2×3,100,000 (cancellation)
    = 6,200,000
86. C
87. B
88. A
    $\frac{1}{2}(1 - \frac{4}{7}) = \frac{3}{14}$
89. D
    10×1½ = 10×1.5 = 15
    16×1½ = 16 + 8 = 24
90. B

Answer Key

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

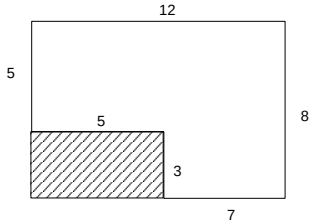
72. 0.85×3000 = 2,550
73. 30
74. .14 × .7 = .098
75. 15
76. 20%
77. $4\frac{1}{16}$ = 4 1/16
78. 44÷5=8R4
    8 + 1 = 9 cars
79. 30
80. Method I)
    ½(5 + 35) = 20

    Method II)
    35-5 = 30
    30÷2 = 15
    15 + 5 = 20
81. 1-round: 2×(13 + 23) = 72 (ft) = 24 (yd)
    5-round: 5×24 = 120 (yd)
82. 50÷5 = 10 cm (diameter)
    circumference = 10π = 31.4 (cm)
    five cir. = 5×31.4 = 157 (cm)
83. n = 1, 6 + 2 = 8
    n = 2, 8 + 2 = 10
    n = 3, 10 + 2 = 12
    n = 100, 6 + 200 = 206
84. 85+92+96 = 273
    273÷3 = 91
85. 93×4 = 372
    372 - 273 = 99
86. 2(2 + 3) = 10 (people each table)
    40 ÷ 10 = 4 tables
87. 40 - 4 = 36
    36÷6 = 6 tables



88. 40 - 6 = 34
    34÷4 = 8 R 2
    8 + 1 = 9 tables

89. 81 – 25 = 56
    56÷7 = 8
    (12 + 8)×2 = 40 in



90. 50×5% = 50×.05 = $2.50

Answer Key

1. .375
2. (560 - 500) ÷ 5 - 1 = 11
3. $\frac{5}{8}$ = 5/8
4. $\frac{7}{8}$ = 7/8
5. 123.4
6. 20
7. 200 ÷ 9 = 22R2
   Ans = 22 & 2 (R)
8. 240
9. 112
10. 5×12 = 60
    60 - 4 = 56
    56÷7 = 8 weeks
11. 50 + 10 = 60
    60 ÷ 2 = 30
12. 8:20 am + 2:50 = 11:10 am
13. 12,436 + 10,658 = 23,094
14. 8×2 = 16
15. C
    24÷7 = 3R3
    Monday - 3 = Friday
16. 12×(3+4+5) = 144
17. 137 - 122 = 15
    15÷5 = 3 nickels
18. 100 + 8×(16 - 10) = 148 cm
19. 4×6 = 24
    4 + 6 = 10
20. 30
    8 in (A) & 10 in (B) & 7 in (C) & 5 in (D)
21. 0.16
22. 1½ + 2⅓ = 3 + (½ + ⅓) = $3\frac{5}{6}$ = 3 5/6
23. $6\frac{5}{6}$ = 6 5/6
24. 123 & 4 (R)
25. 225
26. 450 (min)
27. 12
28. $\frac{13}{15}$ = 13/15
29. 30×8 = 240
    240 - 210 = $30
30. C
    36 = 6×6 = 4×9 = 3×12 = 2×18 = 1×36
    (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 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 lb 12 oz + 8 oz = 9 lb & 4 oz
37. 14
38. 28÷14 = 2
    98÷14 = 7
    196÷14 = 14
    2 + 7 + 14 = 23
39. 48 ÷ 6 = 8
    2(6 + 8) = 28 in
40. 800×15%×2 = 240
41. 7
42. 1.4
43. 0.28
44. 1485
45. 3 ¼
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

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. 1/21
72. 36
73. 18
74. 1/21
75. 1/20
76. C
    $91 = 7\times13$
    It has 4 factors: 1, 7, 13, and 91.
77. A
    A:B = 3:2
    $180\times\frac{3}{5} = \boxed{108}$
78. C
    $40\times20=800$ (cm^2)
    $10^2\pi = 100\pi = 314$
    $800 - 314 = 486$
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
    $\frac{1}{4}$ in = 150 mi
    1 in = 600 mi
    $3\frac{1}{2}$ in = 2,100 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