Answer Key

1. 18,000
2. 6,000
3. 14,000
4. 6,000
5. 9,000
6. 16,000
7. 9,000
8. 14,000
9. 60,000
10. 160,000
11. 10
12. 120
13. 40
14. 0.4
15. 6
16. 6
17. 4
18. 60
19. 12
20. 8
21. 25
22. 11
23. 0
24. 1
25. 8
26. 19
27. 0
28. 59
29. 19
30. 8
31. $3\frac{4}{9}$
32. 1/3
33. $1\frac{5}{7}$
34. 7/20
35. 8/25
36. $2\frac{5}{8}$
37. 5/7
38. 9/10
39. $3\frac{4}{9}$
40. $3\frac{7}{8}$
41. 64
42. 256
43. 125
44. 625
45. 100
46. 1000
47. 10000
48. 400
49. 8000
50. 160000
51. 23/40
    LCD = 40
52. 13/80
    LCD = 80
53. 31/35
    LCD = 35
54. 13/160
    LCD = 160
55. 23/40
    LCD = 40
56. 1/24
    LCD = 24
57. 1/20
    LCD = 20
58. 7/24
    LCD = 24
59. 1/4(=3/12)
    LCD = 12
60. 1/10(=4/40)
    LCD = 40
61. 31
62. 79÷8 = 9R7
    (a) 9 + 1 = 10
    (b) 7 people on extra
63. 35 degrees warmer
64. 1937 - 1492 = 445
65. $20\times\frac{1}{2} = \underline{10}$
66. 2,300,000 feathers
67. Alice = 3
    Carol = 7
    <u>Lewis = 13</u>
68. 4 centuries & 40 decades
69. At the 24^{th} house.
    LCM(6, 8) = 24 (th house)
70. 21 + 3 = 24 (Quin)
    $\frac{1}{3}\times 24 = 8$ (Rachel)

71. 84 games
Use the following table.

Lost	2	24
Won	5	60
Total	7	84

72. 301&298

73. 2 hours & 19 min

74. $2 \times 0.75 = 1.5$
$4 \times 0.75 = 3$
$6 \times 0.75 = 4.50$
$7 \times 0.75 = 5.25$
Ans = 6 cans (at most)

75. (a) 10 fish by Eric
(b) 12 fish by Frank
(c) 15 fish by Gerald

76. -0.008

77. $18 \div \frac{3}{4} = 24$ messages

78. $27.50 \times 2 - 2.00 + 2.50 + 17.25$
$= 55 - 2 + 2.5 + 17.25$
$= 55.5 + 17.25$
$= \$72.75$

79. $6 \div 0.75 = 6 \div \frac{3}{4} = 8$ cans

80. $1 + 50\% = 1.5$
$5 \times 1.5 = \$7.50$

81. $2500 \div 10 \times 3$
$= 750$ min
$= 12\frac{1}{2} = 12\ 1/2$ hr

82. $\frac{3}{4} \times 120 = 90$
$\frac{2}{3} \times 120 = 80$
$90 - 80 = 10$

83. $175 \div 25 = 7$
$7 \times 120 = 840$
or
$\frac{175}{25} \times 120 = 840$

84. $\frac{1}{4} = 0.25 = 25\%$

85. $120 : \_\_\_ = 4 : 1$
$\_\_\_ = 30$

86. $3 \times 5 = 15$
$15 \times 6 = 90$

87. D

88. E

89. $(120 \div 8) \times 15 = 225$

90. Method I)
$45 \times \frac{5}{3} = 75$ books
Method II)
$1 - \frac{5}{8} = \frac{3}{8}$ (unsold)
$45 \div \frac{3}{8} = 120$ (total)
$120 - 45 = 75$ (sold)

Answer Key

1. 5,600
2. 240,000
3. 270,000
4. 280,000
5. 27,000
6. 240,000
7. 21,000
8. 5,600
9. 4,500
10. 320,000
11. 25
12. 18
13. 15
14. 180
15. 42
16. 42
17. 4.8
18. 54
19. 240
20. 360
21. 24
22. 2
23. 24
24. 3
25. 15
26. 9
27. 21
28. 15
29. 5
30. 5
31. $2\frac{7}{9}$
32. 1/4
33. $1\frac{5}{7}$
34. $1\frac{1}{4}$
35. 3/5
36. 1/3
37. 5/16
38. $1\frac{2}{5}$
39. $3\frac{4}{5}$
40. 6/17
41. 144
42. 1.44
43. 169
44. 1.69
45. 225
46. 2.25
47. 256
48. 2.56
49. 289
50. 2.89
51. 13/40
    LCD = 40
52. 7/36
    LCD = 36
53. 37/56
    LCD = 56
54. 7/40
    LCD = 40
55. 41/140
    LCD = 140
56. 7/36
    LCD = 36
57. 1/8
    LCD = 8
58. 1/40
    LCD = 40
59. 1/4(=3/12)
    LCD = 12
60. 1/35(=2/70)
    LCD = 70
61. 141÷3 = 47
    47 + 11 = <u>58</u>
62. Owen = 10
    Steve = $\frac{1}{2}$×10 = 5
    Lyndon = 3×5 + 2 = 17
63. parakeet = 4
    canary = 2
    goldfish = 2
    turtle = 5
    Total = 4 + 2 + 2 + 5 = 13
64. 19 - 3 = 16
    16÷2 = 8
65. 10×3 = 30
    30÷2 = 15
    15 + 10 = 25
66. 18 - 12 = 6
    $6 \div \frac{1}{4}$ = 6×4 = 24

67. (a) C
(b) Total sales = 341 – 25 = <u>316</u>

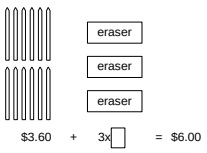
		#sold
Mon	341 – 312	29
Tue	312 – 263	49
Wed	263 – 123	140
Thu	123 - 25	98
Total	341 – 25	316

68. D
Burly, Hefty, Brutus, Stocky
Use the decision table below.

	Burly	Hefty	Brutus	Stocky
Running Back	x	**o**	x	x
Receiver	**o**		x	x
Tight End			**o**	
Quarterback			x	**o**

69. Name Length
Timmy 18
Jamie 9
George <u>21</u>
Ricardo 18
Ans = 18 (Timmy)& 9 (Jamie)& <u>21</u> (George)& 18 (Ricardo)

70. 0.3×12 = 3.6
6 - 3.60 = 2.4
2.40 ÷ 3 = <u>$0.80</u>



71. 9 jumbo cars
(24 tiny cars)

Tiny (4-seat)	Jumbo (6-seat)	#seats
24	0	96
23	1	98
22	2	100
21	3	102
20	4	104
19	5	106
18	6	108
17	7	110
16	8	112
15	**9**	**114**

72. (31 + 11)÷2 = 21
(31 – 11) ÷ 2 = 10
21×10 = <u>210</u>

73. 10 & 15 & 20

74. 12 C & 15 D & 18 E

75. (a) 2÷2 = 1
1.5 - 1 = $0.50 (pencil)
(b) 1.5 + 1 = $2.50 (eraser)

76. 60×(1 - 0.3) = 60×0.7 = $42

77. D

78. C

79. 3×5 = 15 mi

80. $16\frac{1}{8} - 1\frac{3}{4} = 14\frac{3}{8}$
$14\frac{3}{8} \div 7 = 2\frac{3}{56}$ = 2 3/56

81. Method I)
Let x be the number of students.
$4x + 10 = 5(x - 2) - 10$
$4x + 10 = 5x - 20$
$x = 30$
Method II)
2×4 + 10 = 18 (leftover books if 2 students take none)
18×(5 - 4) + 10 = 28 (number of students who take 5 books)
28 + 2 = 30 (total number of students)

82. 2×20 = 40 ft per minute
1000 yd = 3000 ft
3000÷40 = 75 min = $1\frac{1}{4}$ = 1 1/4 hr

83. LCM(4, 6) = 12

84. $T = D/S$ = 300/50 = 6 (hr)

85. 191×2 + 1 = 382 + 1= 383

86. .00005

87. $\frac{180}{45} \times (4 + 3.5)$ = 30 hrs

88. $\frac{7}{16}$ = 7/16

89. $15 \div (3^2 - 2^2) = 3$
5 + 3 = 8
8÷2 = 4

90. 300-60 = 240
240÷5 = $48.00