Dear Rising Up Eighth Grade Math Students,

Attached you will find a Math Summer Packet. The best way to keep up your math skills is to **practice, practice, and practice**. Please work on this packet and return it to me during the first week of school. You will receive a special award for your efforts. Have a great summer and I look forward to Math in the Fall!

God Bless,
Mrs. Richards

1. What is the place value of 3 in 62.003?

2. Which statement is correct?
   a) 0.6 < 0.12
   b) 8.08 > 8.67
   c) 0.065 < 0.164

3. Which statement is not correct?
   a) 18.15 > 18.015
   b) 5.92 < 5.12
   c) 0.800 = 0.8

4. Round to the nearest ten-thousand: 0.01927

5. Estimate the sum: 7.55 + 8.55 + 4.32

6. Estimate the product: 82.49 x 36.7

7. Estimate the difference: 3,695.7 - 828.6

8. $6\frac{2}{3} \times 4\frac{1}{5} =$

9. $8\frac{2}{3} \times 2\frac{5}{8}$

10. What is $\frac{5}{9}$ of 54?

11. Reduce to lowest terms: $\frac{75}{140}$

12. Write a mixed number for $\frac{75}{12}$

13. What is the LCM of 24, 56, 84?

14. Harry bought a notebook for $2.89 and 2 pens for $3.49 each. What was the total cost?

15. Aa boom box cost $89.95. It is on sale for $19.95 off the original price. Estimate the sale price.

16. $29\frac{1}{2} + 25\frac{5}{6} + 77\frac{2}{3}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

17. If $x = 8$ and $y = 10$, what is $16x - 12y$?

17. _____

18. Find $0.0668 - 3.7$ to the nearest hundredth.

18. _____

19. Write the standard form for 9^3

19. _____

20. What is 96,000 is scientific notation?

20. _____

21. What is the cost (to the nearest cent) of 13.9 gallon of gas at $1.549 per gallon?

21. _____

22. Which pair of numbers is relatively prime?
     a) 12 and 33
     b) 15 and 22
     c) 18 and 27

22. _____

23. $52 \frac{5}{12} - 28 \frac{7}{8} =$

23. _____

24. Write in order from the smallest to the largest.
     $\frac{5}{8} \qquad \frac{3}{5} \qquad \frac{6}{7}$

24. _____

25. $15 \times 5 \frac{2}{3} =$

25. _____

26. $18 \div 2 \frac{2}{3} =$

26. _____

27. Estimate: $\frac{3}{4}$ of $36.24

27. _____

28. $6 \frac{3}{4}x + 1 \qquad x = ?$

28. _____

29. What is the decimal for $\frac{5}{12}$?

29. _____

30. What is the reciprocal of $6 \frac{3}{4}$

30. _____

31. Find the quotient: $7 \frac{6}{7} \div 2 \frac{3}{4} =$

31. _____

32. 56,842 m = __ km

32. _____

33. 75 ml = __ g

33. _____

34. 4 hour, 12 minutes = _____ seconds   34. _____

35. What is the capacity of a coffe mug?   35. _____
      a) about 225 l
      b) about 225 ml
      c) about 225 kl

36. What is the name of a triangle with two sides equal?   36. _____

37. One day Harold worked from 8:15 a.m. to noon. Then he worked   37. _____
for his Mom from 1:45 to 4:15 p.m. How many hours did he
work that day?

38. Solve: 38. _____
$$\sqrt{121} + \sqrt{49} + \sqrt{36}$$

39. What is the reciprocal of $8\frac{2}{3}$ 39. _____

40. Write the expression for 15 more than k.   40. _____

41. Write the expression for 10 less than 6 times R.   41. _____

42. $Y + 78 = 4\ 73$. $y =$ _____   42. _____

43. $x - 39 = 107$ $x = ?$ 43. _____

44. $15x - 750$ $x = ?$ 44. _____

45. Oranges cost $1.69 per lb. Find the cost of 3-1/2 lbs.   45. _____

46. What is the lapsed time from 10:45 a.m. to 4:30 p.m.?   46. _____

47. John bought 6 lbs of apples for $3.54. What was the cost per lb? 47. _____

48. Which is correct?   48. _____
      a) $-22 > -15$
      b) $-12 < -8$
      c) $9 < -13$

49. $\frac{N}{19} = -7$ 49. _____

50. Find the unit price. 72 cans of soda for $26.64.   50. _____

51. $\frac{3}{8} = \frac{24}{x}$ 51. _____

52. Add: $-15 + -30 + 12 =$ 52. _____

53. Helen borrowed $350 for 3 years at 16% interest per year. What is the total amount she must repay?

53. _____

54. $\dfrac{x}{6} = 360$

54. _____

55. $40 + 4y = 84.$ $y = ?$

55. _____

56. $6m - 18 = 186$ $m = ?$

56. _____

57. $14K + {-70} = 560$ $k = ?$

57. _____

58. $S = 36$ Solve: $40 - \dfrac{S}{12} = ?$

58. _____

59. Solve: $(18 - {-13}) - 12 =$

59. _____

60. $-32 \cdot -14 =$

60. _____

61. $\dfrac{-153}{17} =$

61. _____

62. $S = -13$ Evaluate: $7S + {-9} =$

62. _____

63. What is the decimal for 256%?

63. _____

64. What is the fraction for 86%

64. _____

65. What is 26% of 600?

65. _____

66. Estimate 52% of 83.

66. _____

67. 56% of a number is 14. What is the number?

67. _____

68. What is 27% of 600?

68. _____

69. What percent of 90 is 36?

69. _____

70. What is the sale price of an item with a regular price of $29.95 and a discount of 30%

70. _____

71. What is the perimeter of an equilateral triangle with S - 7.5"?

71. _____

72. Find the area of a recangle with w = 8.3 cm and l = 15 cm

72. _____

73. Find the area of a triangle with a base of 18.6 & a height of 14.2.

73. _____

74. Find the circumference of a circle with r - 8.5 cm (= 3.14)

74. _____

Find the area

76. If a ____ has one right angle, what is the sum of the other two angles?

76. _____

77. Find the mean of these numbers: 158, 150, 147, 145, 137.

77. _____

78. What is the median of these numbers: 27, 43, 16, 40, 29, 17?

78. _____

79. What is the mode in these amounts: $1.98, $2.44, $1.99, $1.98, $1.75?

79. _____

80. How many degrees in a quadrilateral?

80. _____

81. Give an example of each of these properties.
    a) associative "x"
    b) distributive
    c) commutative "+"

81: _____

82. Evaluate when $x = 48$ and $y = 16$: $\dfrac{x + y}{y}$

82. _____

83. Write $3\dfrac{5}{6}$ as a decimal.

83. _____

84. Solve $\dfrac{-y}{2.4} = 8$

84. _____

85. Evaluate: $8 \times 12 + 8 \cdot 2 =$

85. _____

86. Solve: $39 = m - 22$

86. _____

87. Write an equation and solve.
    12 more than 6 times a number is 144.

87. _____

88. In how many ways can you stack 5 books?
    a) 120
    b) 24
    c) 15
    d) none of these

88. _____

89. Think about drawing a card and without replacement drawing a second card.

89. _____

| A | A | B | C | C | C |

$P(C, B) = \underline{?}$

A. $\dfrac{1}{12}$ B. $\dfrac{1}{10}$

C. $\dfrac{1}{6}$ D. $\dfrac{1}{30}$

90. Think about picking a card. What are the odds in favor of picking 2?

90. _____

2	1
1	
2	3	2

1   to   2