Name_____   Date_____

Summer Work

Commutative Property	Multiples	Associative Property	Sum	Difference
Factors	Product	Improper Fraction	Quotient	Reciprocal
Simplest Form	Equivalent	Equal	Exponent	Powers of 10

Expression	Equation	Variable	Coefficient	Inverse Operations
Ordered Pair	X Axis	Y Axis	Origin	Terms
Like Terms	Mean	Median	Mode	Range

1) States that the order of a multiplication problem or an addition problem will not change the outcome of the answer:_____

2) Same value, different form:_____

3) Numbers that go into other numbers:_____

4) Tell you how many times you move the decimal point right or left depending on whether you are multiplying or dividing:_____

5) Tells you how many times you multiply the base by itself:_____

6) The answer to a subtraction problem:_____

7) The answer to a division problem:_____

8) The answer to a multiplication problem:_____

9) The answer to an addition problem:_____

10) When a fraction can no longer be divided/the numerator and denominator have a greatest common factor of 1:_____

11) Exactly the same in both value and form:_____

12) When the numerator and denominator of a fraction swap places and form a new fraction it creates the:_____

13) When the numerator is greater than the denominator, creating a value greater than one:_____

14) States that the grouping in a multiplication problem or addition problem will not change the outcome of the answer:_____

15) The "times tables" of a number: _____

16) A mathematical "translation" of a real world scenario that can be evaluated_____

17) When you set two expressions equal to each other and solve for a variable_____

18) A letter that represents an unknown number_____

19) The number before a variable that indicates multiplication_____

20) The x and y coordinates that tell you where to plot a point_____

21) The center of the coordinate plane_____

22) The middle number of a data set_____

23) The average of a data set_____

24) The number that appears the most in a data set_____

25) The difference between the max and the min _____

26) Separated by a + or -_____

27) Terms that can be combined_____

28) The opposite of the operation shown_____

29) The vertical line that goes through the origin_____

30) The horizontal line that goes through the origin_____

Part Two: Multiple Choice. Choose the answer that satisfies each question.

31) Which digit is in the thousandths place? 54,689.032

a. 4   b. 9

c. 2   d. 6

32) How many times bigger is the leftmost 2 from the rightmost 2? 2,500.2

a. 10^4 b. 1,000

c. 10,000   d. Both a and c

33) What is the fraction equivalent to .017?

a. 17/100

b. 1 7/10

c. 17/1000

d. 1 7/100

34) What is the decimal equivalent of 7/100?

a. .007

b. .7

c. .07

d. 7.0

35) Which of the following is 32,501 written in expanded form?

a. $(3 \times 10^4) + (2 \times 10^3) + (5 \times 10^2) + (1 \times 10^0)$

b. $(3 \times 10,000) + (2 \times 1,000) + (5 \times 100) + 1$

c. $30,000 + 2,000 + 500 + 1$

d. All of the above

36) What is 734.58×10^2?

a. 7.3458

b. 7,345.8

c. 73,458

d. 73.458

37) What is $35 \div 10^4$?

a. .35

b. 35,000

c. .0035

d. .035

38) What is 3 ⅚ x 4 1/9 as a mixed number in simplest form?

a. 74/5

b. 666/45

c. 14 ⅚

d. None

39) What is $16/3 \div 4$ in simplest form?

a. 16/12

b. 8/6

c. 4/3

d. 64/3

40) What is the greatest common factor between 12 and 30?

   a. 2   b. 3

   c. 6   d. 12

41) What is the least common multiple between 8 and 12?

   a. 4   b. 8

   c. 12   d. 24

42) What is $3\frac{1}{4} - 1\frac{5}{8}$ in simplest form?

   a. $1\frac{5}{8}$ b. $2\frac{5}{8}$

   c. $1\frac{1}{4}$ d. $2\frac{1}{4}$

43) What is $5\frac{5}{8} + 6\ 7/12$ in simplest form?

   a. 11 26/24   b. 12 2/24

   c. 12 1/12   d. 11 12/20

44) What is 5.75 x .5?

   a. 28.75   c. 2.875

   b. 287.5   d. 2875

45) What is $35 \div .07$?

   a. 5   c. 50

   b. 500   d. 5000

46) What is 658.93 rounded to the nearest whole number?

   a. 658   c. 659

   b. 660   d. 700

47) What is 396.48 rounded to the nearest tens place?

   a. 3100.00   c. 400

   b. 400.96   d. 396.5

48) Which property does the following expression represent? $3 + 5 + 8 = 8 + 5 + 3$

   a. Distributive   c. Associative

   b. Commutative   d. Identity

49) Which property does the following expression represent? $(3 + 5) + 8 = 3 + (5 + 8)$

   a. Distributive   c. Associative

   b. Commutative   d. Identity

50) What is $4.37 + 39.85$?

   a. 22.44   c. 44.22

   b. 404.20   d. 40.44

52) What is 30/105 written in simplest form?

   a. ⅓   c. 6/21

   b. 2/7   d. 1/8

53) What is $323.02 - 27.79$?

   a. 295.23   c. 301.23

   b. 299.99   d. 304.77

54) Solve the following equation: $x - 10 = 20$

   a. $x = 10$ c. $x = 20$

   b. $x = 30$ d. $x = 40$

55) Solve the following equation: $12 + x = 42$

   a. $x = 54$ c. $x = 30$

   b. $x = 12$ d. $x = 42$

56) Solve the following equation: $x/9 = 8$

a. $x = 72$ 　　　　　　　　　　　　　　　　　　c. $x = 9$

b. $x = 8$ 　　　　　　　　　　　　　　　　　　d. $x = 17$

57) Solve the following equation: $12x = 144$

a. $x = 144$ 　　　　　　　　　　　　　　　　　c. $x = 12$

b. $x = 156$ 　　　　　　　　　　　　　　　　　d. $x = 132$

58) Evaluate the following expression: $[2 + (10-3)] \times 10$

a. 90 　　　　　　　　　　　　　　　　　　　　c. 80

b. 72 　　　　　　　　　　　　　　　　　　　　d. 27

59) Evaluate the following expression: $10 - 1 + 5$

a. 4 　　　　　　　　　　　　　　　　　　　　　c. 14

b. 12 　　　　　　　　　　　　　　　　　　　　d. 5

60) Evaluate the following expression: $(3+5)-(2 \times 4)$

a. 8 　　　　　　　　　　　　　　　　　　　　　c. 0

b. 5 　　　　　　　　　　　　　　　　　　　　　d. 10

61) What is the horizontal distance between (3,4) and (8, 4)?

a. 0 　　　　　　　　　　　　　　　　　　　　　c. 4

b. 2 　　　　　　　　　　　　　　　　　　　　　d. 5

62) What is the missing y value in the following pattern? (1, 4)(2, 8)(3, y)(4, 16)?

a. 4 　　　　　　　　　　　　　　　　　　　　　c. 12

b. 16 　　　　　　　　　　　　　　　　　　　　d. 20

63) If you start at (5, 9) and you move left 4 times and down 6 times, what ordered pair represents your new position?

a. (3, 1) 　　　　　　　　　　　　　　　　　　c. (1, 3)

b. (9, 15) 　　　　　　　　　　　　　　　　　d. (15, 9)

64) Evaluate the following expression: 3x + 10, when x = 5

    a. 5   c. 15

    b. 20   d. 25

Use the following data set to answer all questions below: 12, 15, 10, 9, 12, 12, 9, 16, 17

65) What is the range?
    a. 5   c. 29
    b. 8   d. 10

66) What is the mean? (rounded to the nearest whole number)
    a. 13   c. 12
    b. 14   d. 15

67) What is the median?
    a. 12   c. 10
    b. 9   d. 15

68) What is the mode?
    a. 9   c. 12

    b. 17

Have a wonderful summer! I look forward to seeing you all in September!