Summer Packet 5th into 6th grade

Name _____

Addition

Find the sum of the two numbers in each problem. Show all work.

1 1 4 4 8 + 1 8 8 1

1. 652 + 345

Decimal Addition:

Remember to line up the decimals before adding. Bring the decimal straight down in your answer.

4. 7.75 + 1.46

Subtraction

Find the difference between the two numbers in each problem. Show all work.

Example:

3 13

7.

8.

9.

Decimal Subtraction:

Remember to line up the decimals before subtracting. Bring the decimal straight down in your answer.

10.

11.

12.

Multiplication

Find the product of the two numbers in each problem. Show all work.

Example:

<u>×16</u> 324 +540 864

54

13.

65 <u>× 4</u> 14.

42 <u>× 8</u> 15.

84 × 39

Decimal Multiplication:

Multiply as you would with whole numbers. Count the decimal places in each factor. The product (answer) has the same number of decimal places.

16.

.13 × 70 17.

5.1 <u>x 2</u> 18.

x 2.5

.108

Division

Find the quotient in each problem. If there is a remainder, state the remainders as R=___. Show all work. Feel free to use a separate sheet of paper.

19.

20.

21.

7)591

12)264

43)2815

Decimal Division:

If the divisor (outside number) is a decimal, you must move the decimal point (using multiplication) to the right until it becomes a whole number. Then, move the decimal in the dividend (inside number) the same number of times. Divide to find your answer (quotient).

Then, move the decimal straight up from the dividend to the quotient.

Remember, no remainders.

quotient divisor dividend

22.

23,

24.

3)31.8

.5)7.45

.12)12.24

Rounding

Underline the given place value. Look to the right. If this digit is 5 or greater, increase the underlined digit by 1. If the digit to the right is less than 5, keep the underlined digit the same.

Round to the nearest...

hundredth

0.547

0.55

Round to the nearest....

25. tenth 0.3479

- 26. hundredth 0.7553
- 27. whole number 3.268

28. ten 162.21

- 29. thousandth 0.0036
- 30. hundred 990.54

Compare the decimals.

Compare using <, >, or = $1.2 \quad 1.20 \quad 1.2 = 1.20$

- 31. 0.205 0.21
- 32. 1.03 0.03
- 33. 0.04 0.050

- 34. 0.1 0.1000
- 35. 0.52 () 0.500
- 36. 0.41 () 0.405

Ex	mposite Number: A ample: 8 is a compo	A whole number site number sind	greater the	in 1 that has mo rs are 1, 2, 4, 8.	re than tw	vo factors.	
	ermine if the follow se list all of the fac		: prime or c	omposite. If th	ne numbers	s are comp	osite,
37.	27:				·····		
38.	39:						
39.	43:						
40.	49:						
A w	onents ay to show repeate nple: 2 ³ = 2 x 2 x y times the numb	2 = 8. The smo	ıll raised tl	aree is the exp	ponent. I	nent. In t	his W
Solve find	: the following expr the value.	essions by writi	ng the expo	anded notation ((repeated	multiplicat	ion) and
41.	6 ²	42.	2 ⁶		43.	3 ⁴	

45.

five cubed

Prime Number: A whole number greater than 1 that has only two factors, 1 and itself.

Examples: 2, 3, 5, 7, 11, 13, 17, and 19 are all prime numbers.

44.

eight squared

Exam is June 29th

Greatest Common Factor

The greatest factor that two or more numbers have in common (GCF).

- 1. List all the factors of four in order
- 2. List all the factors of twenty in order
- 3. List the common factors
- 4. Write the greatest common factor

Finding Common Factors:

4: 1, 2, 4

20: 1, 2, 4, 5, 10, 20

Common Factors: 1, 2, 4 GCF= 4

List all the factors for each number. Circle the common factors.

4 6.	30:							
	Common Factors:							
47.	60 :							
- ₹/.								
	Common Factors:	Greatest Common Factor:						
48.	23:							
		·						
	Common Factors:	Greatest Common Factor:						
49.	56:							
	72:							
	Common Factors:	Greatest Common Factor:						

Least Common Multiple

The smallest nonzero multiple that two or more numbers have in common.

- 1. List the first 6 multiples of 4
- 2. List the first 6 multiples of 6
- 3. List the common multiples
- 4. Write the least common multiple.

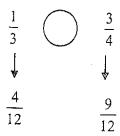
Finding Common Multiples: 4: 4, 8, 12, 16, 20, 24 6: 6, 12, 18, 24, 30, 36 Least Common Multiple= 12

50.	8:						
	12:	· · · · · · · · · · · · · · · · · · ·					
	Common Multiples:	Least Common Multiple:					
51.	7:	<u> </u>					
	11:						
	Common Multiples:						
52.	25:						
	10 :						
	Common Multiples:	Least Common Multiple:					
53.	24 :						
	36:						
	Common Multiples:	Least Common Multiple:					

Comparing Fractions

Compare each pair of numbers. Write the correct comparison symbol (<, >, =) in each circle. Make sure you have common denominators before comparing numerators.

Example:



58.

$$\frac{3}{8}$$
 $\frac{5}{8}$

59.

$$\frac{3}{4}$$
 $\frac{3}{8}$

60.

$$\frac{1}{2}$$
 $\frac{4}{8}$

61.

$$\frac{3}{7}$$
 \bigcirc $\frac{1}{4}$

62.

$$\frac{3}{5}$$
 $\frac{5}{6}$

63.

$$\frac{7}{8}$$
 $\frac{3}{4}$

Ordering Fractions

Order the following fractions from least to greatest.

64.

$$\frac{3}{8}$$
 $\frac{5}{8}$ $\frac{4}{8}$ $\frac{2}{8}$ $\frac{7}{8}$

65.

$$\frac{1}{5}$$
 $\frac{4}{5}$ $\frac{1}{10}$ $\frac{6}{10}$ $\frac{7}{10}$

66.

$$\frac{1}{2}$$
 $\frac{1}{4}$ $\frac{1}{6}$ $\frac{1}{3}$ $\frac{1}{5}$

67.

$$\frac{1}{2}$$
 $\frac{5}{16}$ $\frac{30}{64}$ $\frac{3}{8}$ $\frac{9}{32}$

Order of Operations

Solve the following problems. Show your work. Be sure to follow the order of operations.

<u>P</u>arenthesis

<u>E</u>xponents

 \underline{M} ultiplication or \underline{D} ivision: Which ever comes first

from left to right.

Addition or Subtraction: Which ever comes first

from left to right.

Example: 8

$$8 - 4 \div 2 + 2 =$$

$$8 - 2 + 2 =$$

8

69.
$$36 \div 4 \times 3 =$$

70.
$$(30 + 8) \times 6 -1 =$$

71.
$$(30 + 8) \times (6-1) =$$

72.
$$(29-18)+14\div2+6=$$
 73. $64\div8\times2$

76.
$$24 + 6^2 - 1^4 =$$