

Name: _____ Date: _____

Number 3. Demonstrate an understanding of factors and multiples by:

_____ I can determine multiples of numbers less than 100.

_____ I can determine factors of numbers less than 100.

_____ I can identify prime numbers.

_____ I can identify composite numbers.

_____ I can solve problems using multiples and factors.

Multiples:

1) Please write the next multiples in the following patterns:

a) 4, 6, 8, _____, _____, _____, _____, _____.

b) 27, 36, 45, _____, _____, _____, _____, _____.

2) Please write the first five multiples for each of the following numbers:

a) 9: _____, _____, _____, _____, _____.

b) 7: _____, _____, _____, _____, _____.

c) 13: _____, _____, _____, _____, _____.

3. The bike compound downtown allows people to lock their bikes up while they are at work. When a bike is locked in the compound both wheels are locked up. If the owner of the compound has 58 locks, how many bikes can they lock up in a day?

****make sure to show your math thinking and to write a complete sentence with your answer.**

Lowest Common Multiple:

4) Find the LCM for the following sets of numbers - Please show your work!

a) 8 and 6

b) 5 and 8

c) 3 and 9

d) 2, 3 and 9

5) Explain the steps/process you used to determining the LCM of a set of numbers:

6) Jessie and Dan work at the grocery store. Jessie works every third day, and Dan works every fifth day. If today is Oct. 20 and they both worked, what day will they work together again?

***please show your work and remember to express your answer in the form of a complete sentence.

7) Factors:

List the factors for the following numbers, remember to show your work.

a) 28:

b) 15:

c) 26:

d) 80:

Greatest Common Factor:

8) Find the *GCF* for the following sets of numbers. Please show your work.

a) 20 and 45

b) 28 and 63

c) 16 and 36

d) 16, 24 and 32

9) Miss Epp has 30 students in her class and would like to seat her students in equal length rows. What are the different desk arrangements that she can have if all rows are the same length?

***please show your work and remember to express your answer in the form of a complete sentence.

Prime or Composite:

10) Explain how you can determine if a number is prime or composite?

11) Place a "P" on the blank if the number given is prime. Place a "C" on the plank if the given number is composite.

32 _____ 12 _____ 7 _____ 8 _____

13 _____ 40 _____ 37 _____ 16 _____

33 _____ 29 _____ 18 _____ 14 _____