Name: _____ Mr. Hoffman   classwork

_____ are numbers we multiply together to get another **number**, and are those positive whole numbers that divide evenly into that **number**.

Ex: the factors of 18 are {1, 2, 3, 6, 9, 18} Called the LIST METHOD in ascending order (low to high).

 1 x 18   2 x 9   3 x 6   RAINBOW FACTORIZTION

Example   18

1 2 3   6 9 18
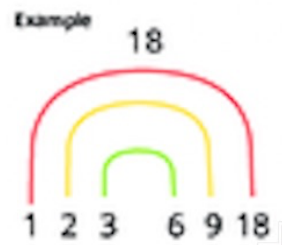
In ascending order, ALWAYS START WITH 1 AND ITSELF
and work inwards as pairs:

List the factors of 40   _____

List the factors of 72   _____
(use your divisibility rules to help you)

~~~~~~

What are all the factors of 17? _____

This kind of number is called a _____number.

_____ number: A whole number greater than 1 with only two factors; 1 and itself.

Examples: _____   _____   _____   _____   _____   _____   _____ _____

Think "PRIvate conversation" only between <u>two people.</u>

On the line below, list **all the prime numbers up to 25:**

_____

What is the SMALLEST prime number? _____
What is the ONLY EVEN prime number? _____

There is a name for a number that has THREE OR MORE factors:

A _____ number: A whole number greater than 1, with three or more factors.

Examples _____   _____   _____   _____   _____   _____   _____

Think COMPany; when you have three or more people over your house!

~~~~~~

Write (P) if PRIME, (C) if COMPOSITE, or (N) Neither

0____   1____   9____   31____   43____   51 ____   57 ____   77____   87 ____

#	List all the FACTORS (ascending order)	Prime (P) or Composite (C) Neither (N)
*0		
*1		
*2		
3		
6		
7		
8		
11		
12		
13		
16		
17		
18		
19		
20		
21		
22		
24		
25		
*51		
*57		
*87		

NAME: _____ **Math Grade 6 Hoffman**

Prime and Composite Numbers "P and C" HOMEWORK

If a number is prime; write the word "PRIME" on the line.
If a number is composite, <u>list all its factors in ascending order (low to high).</u>
*Use your divisibility rules to help you!
*SELF CHECK: there are ⌐93⌐ total factors on the page from the composite numbers.

A) 6 _____   B) 3 _____

C) 5 _____   D) 12 _____

E) 18 _____   F) 2 _____

G) 13 _____   H) 10 _____

I) 11 _____   J) 14 _____

K) 17 _____   L) 20 _____

M) 19 _____   N) 16 _____

O) 7 _____   P) 15 _____

Q) 8 _____   R) 21 _____

S) 23 _____   T) 27 _____

U) 29 _____   V) 26 _____

W) 24 _____   X) 31 _____

Y) 51 _____   Z) 52 _____

AA) 53 _____   BB) 56 _____

CC) 57 _____   DD) 59 _____

EE) 77 _____   FF) 87 _____

GG) 1 _____   HH) 0 _____

DID YOU COUNT ALL OF YOUR FACTORS ABOVE? circle YES or NO

Did you eventually FIND ALL 93 factors? circle YES or NO

**II) Go to HOFFKIDS, Zone 4 Math LINKS, Do Math Potato M420. "Prime and Composite"
While there you may want to do M405 again (Div drop down) to prepare for tomorrow!!**

*Look for short Do Now Quizzes any day (divisibility rules, prime, composite, factors)