

The _____ of a number, are those positive whole numbers that divide evenly into the number.

Ex: the factors of 6 are {1, 2, 3, 6} This is called the LIST METHOD.

$$2 \times 3 = 6 \quad (2 \text{ and } 3 \text{ are factors of } 6)$$

In ascending order (low to high)...

List the factors of 40 _____

List the factors of 72 _____

(use your divisibility rules)

~~~~~  
**What are all the factors of 17?** \_\_\_\_\_

**This kind of number is called a \_\_\_\_\_ number.**

\_\_\_\_\_ number: A whole number greater than 1 with exactly two factors; 1 and itself.

Examples \_\_\_\_\_

***Think “PRIVate conversation” only between two people.***

On the line, list **all the prime numbers up to 20:**

\_\_\_\_\_

There is a name for numbers that have MORE than two factors:

\_\_\_\_\_ number: A whole number greater than 1, with more than 2 factors.

Examples \_\_\_\_\_ -

*Think **Company**; when you have more than two people over your house!*

**Write (P) if PRIME or (C ) if COMPOSITE or (B) Both or (N) Neither**

**51** \_\_\_\_\_      **57** \_\_\_\_\_      **87** \_\_\_\_\_      **1** \_\_\_\_\_      **0** \_\_\_\_\_

| #   | List all Factors (ascending order) | Prime (P) or Composite (C)<br>Both (B) 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&C” HOMEWORK

If a number is prime; write the word ‘prime’ on the line.

If a number is composite, list all its factors in ascending order (low to high).

\*Use your divisibility rules to help you!

\*SELF CHECK!: there are **93** total factors on the page from the composite numbers.

1) 6 \_\_\_\_\_

2) 3 \_\_\_\_\_

3) 5 \_\_\_\_\_

4) 12 \_\_\_\_\_

5) 18 \_\_\_\_\_

6) 2 \_\_\_\_\_

7) 13 \_\_\_\_\_

8) 10 \_\_\_\_\_

9) 11 \_\_\_\_\_

10) 14 \_\_\_\_\_

11) 17 \_\_\_\_\_

12) 20 \_\_\_\_\_

13) 19 \_\_\_\_\_

14) 16 \_\_\_\_\_

15) 7 \_\_\_\_\_

16) 15 \_\_\_\_\_

17) 8 \_\_\_\_\_

18) 21 \_\_\_\_\_

19) 23 \_\_\_\_\_

20) 27 \_\_\_\_\_

21) 29 \_\_\_\_\_

22) 26 \_\_\_\_\_

23) 24 \_\_\_\_\_

24) 31 \_\_\_\_\_

25) 51 \_\_\_\_\_

26) 52 \_\_\_\_\_

27) 53 \_\_\_\_\_

28) 56 \_\_\_\_\_

29) 57 \_\_\_\_\_

30) 59 \_\_\_\_\_

31) 69 \_\_\_\_\_

32) 77 \_\_\_\_\_

33) 1 \_\_\_\_\_

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