Name_____   Date_____   Class_____

Prime and Composite Notes page #_____

Standard: MGSE6.NS.1

Goal: *Distinguish between prime and composite numbers and using the Fundamental Theorem of Arithmetic*

A prime number is

_____

_____.

A composite number is

_____

_____.

Define prime factorization

_____

_____.

What is a factor tree and how is it used?

_____

_____.

The Fundamental Theorem of Arithmetic states that every _____

_____ is either _____ or can be written as a _____ of

prime numbers.

List the first 10 prime numbers_____

List the first 10 composite numbers_____

What number is neither prime nor composite? _____ Why?...Please explain.

_____

_____.

Find the prime factorization of the following numbers using a factor tree.

      12   30   48   96

The power 2^4 is read "two to the fourth power" where two is the _____

and four is the _____. This also means that the _____

tells the _____ how many times it is **written** to find the product.