

Cornell Notes

Name

Date

8/28/12

Topic

Prime Factorization

Class/

Subject

math

Prime number

Has only one factor pair ex. 3

Composite

Has more than one factor pair
ex. 6

Prime factorization

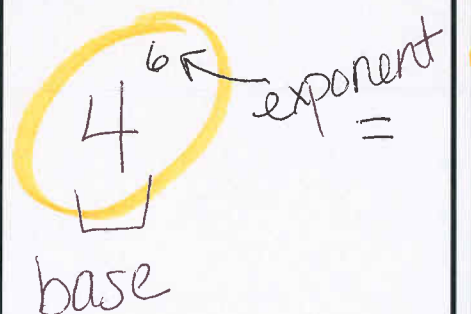
A composite number expressed as a product of prime numbers

Exponent

little number above the base
tells the base how many times to multiply itself

Base

Bottom Number



$$4 \times 4 \times 4 \times 4 \times 4 \times 4 = 4,096$$

Prime Factorization Example

48

① Start with factor pairs (any)

6 8

② Check if composite or prime

3 4

③ prime circle

- composite - Keep breaking it down

2 2

④ write it down in exponential form

$$2 \times 2 \times 2 \times 2 \times 3 = 2^4 \times 3$$

When doing prime factorization, it's important to know the factors of a number and if they are prime or composite