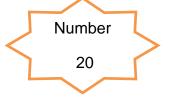
Fractions

Finding factors

There are <u>2 methods</u> of finding a number's factors:



Technique #1

Find all the numbers that you can multiply to get 24 and put them in order from least to greatest:

- 1 x 20= 20
- 2 x 10= 20
- 3 x ?= (This cannot work so it's not a factor)
- 4 x 5=20
- $5 \times 4 = 20$ (When factors are the same or when they repeat- you are done!)

Technique #2

Divide by numbers to get a whole number answer:

- 20 ÷ 1 =20
- 20 ÷ 2 =10
- $20 \div 3 = 6.667$ (not a whole number)
- $20 \div 4 = 5$

The factors must be listed from least to greatest:

 $1\ ,\ 2\ ,\ 4\ ,\ 5\ ,\ 10\ ,\ 20$

You can double check your work by making a rainbow:

2, 4, 5, 10, 20

Fractions

Greatest Common Factors

Finding the Greatest Common Factor (GCF)

When you have found the factors of two numbers, you can then find the GCF of those two numbers.

Example:

Find the GCF for 8 and 20: List all of the factors for each number

8: 1, 2, <u>4</u>, 8

20: 1, 2, <u>4</u>, 5, 10, 20

4 is the largest number that appears in both lists so it is the GCF

GCF= 4

Fractions

Reducing a Fraction

When you have a fraction, you can use the GCF of the numerator and denominator to reduce the fraction.

Ex:

<u>12</u> 15

5

12: 1, 2, <u>3</u>, 4, 6, 1 **15**: 1, <u>3,</u> 5

 $\frac{\text{GCF: 3} = 12 \div 3 = 4}{15 \div 3 = 5}$