- Simplifying Fractions


## Vocabulary

## Equivalent fractions fractions that name the same number.

## Equivalent Fractions



## Equivalent Fractions



$\frac{6}{8}$

## Equivalent Fractions

## To find an equivalent fraction

 you multiply or divide the numerator and the denominator by the same number.
## Equivalent Fractions


$=$

8


## Equivalent Fractions



## Vocabulary

Simplest form - when the GCF of the numerator and denominator is one.

## Rules for Simplifying Fractions

When the numerator is 1 , the fraction will not reduce.

## Example:

$\frac{1}{2}$

## Rules for Simplifying Fractions

When the denominator is prime, the fraction will not reduce.

## Example:

4
7 (prime)

## Rules for Simplifying Fractions

When the numerator is one less than the denominator, the fraction will not reduce. (Counting order)
Example:
4
5

## Rules for Simplifying Fractions

When the numerator is prime
and does not divide the denominator evenly, the fraction will not reduce. Example:

$$
\frac{5}{8} \text { (prime) }
$$

## Rules for Simplifying Fractions

When the numerator and the denominator are even, the fraction will always reduce.

$$
\text { Example: } \frac{8}{10} \div 2=\frac{4}{5}
$$

## Rules for Simplifying Fractions

When the numerator divides the denominator evenly, the fraction will always reduce.

## Example:

$$
\frac{5}{15} \div 5=5
$$

## Rules for Simplifying Fractions

When the numerator and the denominator can be divided by a common factor, the fraction will always reduce.

## Example:

$$
\frac{9}{12} \div 3=3
$$

