

# Let's SIMPLIFY!

When you simplify a fraction, you are writing it in lowest terms.  
The original fraction and the simplified fraction are equal.

**Fractions - Simplifying**

Factors are 1, 3, 9  
HCF, So  $9 \div 3 =$

$$\frac{9}{15} = \frac{3}{5}$$

HCF, So  $15 \div 3 =$   
Factors are 1, 3, 5, 15  
GCF,

Visual representation of 9/15 and 3/5 using purple blocks.

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Tip: The fastest way to simplify a fraction is to divide by the GCF!

Example: Simplify  $\frac{25}{50}$

Using any common factor:

5 is a common factor of 25 & 50....

But 5/10 is not completely simplified, so divide again...

$$\frac{25}{50} \div \frac{5}{5} = \frac{5}{10} \longrightarrow \frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$$

Using the GCF:

25 is the GCF of 25 and 50...

$$\frac{25}{50} \div \frac{25}{25} = \frac{1}{2}$$

# Let's **SIMPLIFY!**

When you simplify a fraction, you are writing it in lowest terms.

The original fraction and the simplified fraction are equal.

①  $\frac{27}{45}$  > both in the 9x table  
↓

②  $9 \times 3 = 27$  so  $27 \div 9 = 3$   
 $9 \times 5 = 45$  so  $45 \div 9 = 5$

③  $\frac{27 \div 9}{45 \div 9} = \frac{3}{5}$

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$$\frac{25}{50} \div \frac{5}{5} = \frac{5}{10} \longrightarrow \frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$$

Using the GCF:

25 is the GCF of 25 and 50...

$$\frac{25}{50} \div \frac{25}{25} = \frac{1}{2}$$