# Mafil vocabulary ReVIEW 

numerator the number above the fraction bar in a fraction that tells the number of equal parts that are being described. denominator the number below the fraction bar in a fraction that tells the number of equal parts in the whole. equivalent fractions two or more fractions that name the same part of a whole or the same point on a number line.
common denominator a number that is a common multiple of the denominators of two or more fractions.


## Compare Fractions




## IMPROPER FRACTIONS

An improper fraction is a fraction where the numerator is greater than the denominator


## An improper fraction is a

 number that is $>1$The numerator is larger than the denominator 4 $\frac{12}{4}=3$ wholes


## Mixed Numbers

A mixed number is a number that consists of a whole number and a proper fraction.



Add Mixed Numbers With Like Denominators (A)


## Mixed Number

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Step 1. Moltiply the whole rumber end the dohcotitrator

## Improper Fraction $\rightarrow$ Mixed Number

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# Add \& subtract Fractions 

## Add \& Subtract with Unlike Denominators

1. Check if denominators are the same.
2. Write the fractions vertically
3. Find the LCD
4. The LCD becomes the new denominator for EACh fraction.
5. Add/Subtract \& Simplify if needed


## Subtract Mixed Numbers with Regrouping



Multiply Fractions

## Muitiply a Fraction \& A Whole Number Step 1

Write the whole number as a fraction.
Example Problem: $\longrightarrow 2 \times \frac{1}{8}$


## Step 2

Multiply the numerators together. Multiply the denominators together.

$$
\text { Nenominators } \frac{\frac{2}{1} \times \frac{1}{8}=\frac{2}{8}}{}
$$

## Step 3

Gheck your answer. If it is an improper fraction, change it to a mixed number. If it is not in lowest terms, simplify.


The fraction $\frac{2}{8}$ is not in lowest terms and can be simplified.

## Multiply Two Fractions

## Step 2

## Step 1

$$
\text { Example Problem: } \longrightarrow \frac{3}{5} \times \frac{5}{8}
$$

Multiply the numerators together. Multiply the denominators together.


Gheck your answer. If it is an improper fraction, change it to a mixed number. If it is not in lowest terms, simplify.


The fraction $\frac{15}{40}$ is not in lowest terms and can
be simplified.

## Multiply Mixed Numbers <br> Step 2 <br> Step 3

## Step 1

Example Problem: $\longrightarrow 3 \frac{2}{3} \times 2 \frac{3}{7}$
Write each mixed number as an improper fraction.


Rewrite the multiplication problem horizontally using the improper fractions.

$$
\frac{11}{3} \times \frac{17}{7}
$$

Multiply the numerators together. Multiply the denominators together

## Step 4

Check your answer. If it is an improper fraction, change it to a mixed number.


## Step 5

Gheck your answer. If the fraction is not reduced to lowest terms, you must simplify.
$8 \frac{19}{21}$

Since the numerator and the denominator do not share a common factor the fraction is simplified to lowest terms

## Divide

 Fractions
## Dividing Fractions



