

6-2 Adding and Subtracting Fractions with Unlike Denominators



Today's Objective: You will learn how to add and subtract with unlike denominators.

Unlike Denominators: Denominators which are different in two fractions.

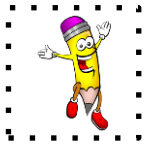
Least Common Denominator (LCD): The least common multiple (LCM) of any two (or more) denominators.

EX: 30 is the LCD of $\frac{1}{6}$ and $\frac{4}{15}$



****To add or subtract fractions with unlike denominators:**

- 1. Convert the fractions to equivalent fractions by finding a common denominator**
- 2. Add or subtract the fractions**
- 3. Convert to simplest form if possible**

**EX #1: Find the difference:**

The problem: $\frac{3}{4} - \frac{1}{3}$

Common Denom: 12

Convert 1st fraction: $\frac{3}{4} = \frac{9}{12}$

Convert 2d fraction: $\frac{1}{3} = \frac{4}{12}$

Now compute: $\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$

Simplest Form: $\frac{5}{12}$

EX #2: Find the sum:

The problem: $\frac{73}{100} + \frac{13}{25}$

Common Denom: 100

Convert 1st fraction: $\frac{73}{100}$

Convert 2d fraction: $\frac{13}{25} = \frac{52}{100}$

Compute: $\frac{73}{100} + \frac{52}{100} = \frac{125}{100}$

Simplify: $= 1 \frac{25}{100} = 1 \frac{1}{4}$

Simplest Form: $1 \frac{1}{4}$



YOU TRY:

1. $\frac{6}{7} + \frac{2}{3} = b$

2. $\frac{5}{6} - \frac{4}{7} = p$

3. $\frac{18}{20} - \frac{4}{5} = m$

4. $\frac{8}{9} + \frac{1}{6} = g$