

## Adding/Subtracting Fractions: With Like Denominators

$$\begin{array}{r} \frac{3}{7} \\ + \frac{2}{7} \\ \hline \frac{5}{7} \end{array}$$

1. Drop Denominator
2. find sum or difference of numerators
3. Reduce if you can

Try This:

Mild

$$\frac{9}{12} - \frac{5}{12} =$$

$$\frac{4}{12} = \left(\frac{1}{3}\right)$$

Try This:

Medium

$$7\frac{3}{5} + 3\frac{2}{5} =$$

$$10\frac{5}{5} = 10 + 1 = 11$$

Try This:

Spicy

$$7\frac{6}{9} + 7\frac{8}{9} =$$

$$14\frac{14}{9}$$

$$14 + 1\frac{5}{9} = 15\frac{5}{9}$$

Examples:

$$\begin{array}{r} \frac{3}{8} \\ + \frac{4}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{9} \\ + \frac{6}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5\frac{10}{12} \\ - \frac{4}{12} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{6}{8} \\ + \frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 4\frac{9}{14} \\ - 2\frac{7}{14} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{7}{8} \\ - \frac{5}{8} \\ \hline \end{array}$$

## Adding and Subtracting Fractions and Mixed #s With "Unlike" Denominators

$$\begin{array}{r} \frac{2 \times 8}{3 \times 8} \quad \frac{66}{24} \\ + \frac{5 \times 3}{8 \times 3} \quad \frac{15}{24} \\ \hline \frac{31}{24} = 1\frac{7}{24} \end{array}$$

1. Find the LCD
2. Convert to equivalent Fractions (you can NOT add or subtract fractions until Ds are the same!!!!)
3. Find sum or difference
4. Reduce if you Can

Try This:

Mild

$$\frac{2 \times 2}{3 \cdot 2} - \frac{1}{6} =$$

$$\frac{4}{6} - \frac{1}{6} = \frac{5}{6}$$

Try This:

Medium

$$5 \frac{3 \times 3}{7 \times 3} + 2 \frac{10}{21} =$$

$$5 \frac{9}{21} + 2 \frac{10}{21}$$

$$7 \frac{19}{21}$$

# Try This:

Spicy

$$10 \frac{7 \times 3}{8 \times 3} + 5 \frac{4 \times 2}{12 \times 2} =$$

$$10 \frac{21}{24} + 5 \frac{8}{24} = 15 \frac{29}{24}$$

$$15 + 1 \frac{5}{24} = 16 \frac{5}{24}$$

## Examples:

$$\begin{array}{r} 2 \cdot 7 \quad 14 \\ 6 \cdot 7 \quad 42 \\ 3 \cdot 6 \quad 18 \\ + 7 \cdot 6 \quad 42 \\ \hline \end{array}$$

$\frac{32}{42} = 16 \frac{16}{21}$

$$\begin{array}{r} 5 \quad 5 \\ 9 \quad 9 \\ 1 \quad 3 \\ - 3 \quad 9 \\ \hline \end{array}$$

$\frac{2}{9}$

$$\begin{array}{r} 7 \frac{2}{8} \quad 7 \frac{1}{4} \\ + 3 \frac{1}{2} \quad 3 \frac{2}{4} \\ \hline \end{array}$$

$10 \frac{3}{4}$

$$\begin{array}{r} 9 \frac{3}{6} \quad 9 \frac{15}{30} \\ - 4 \frac{4}{10} \quad - 4 \frac{12}{30} \\ \hline \end{array}$$

$5 \frac{3}{30} = 5 \frac{1}{10}$

$$\begin{array}{r} 10 \frac{5}{7} \\ - 7 \\ \hline \end{array}$$

$3 \frac{5}{7}$

$$\begin{array}{r} 6 \\ + 2 \frac{4}{6} \\ \hline \end{array}$$

$8 \frac{4}{6}$

