

# Adding and Subtracting Fractions with Different Denominators

$$\frac{2}{3} + \frac{5}{6} + \frac{3}{4} = \frac{27}{12}$$

$\frac{2}{3} \xrightarrow{\times 4} \frac{8}{12}$   
 $\frac{2}{3} \xleftarrow{\times 4}$

$\frac{5}{6} \xrightarrow{\times 2} \frac{10}{12}$   
 $\frac{5}{6} \xleftarrow{\times 2}$

$\frac{3}{4} \xrightarrow{\times 3} \frac{9}{12}$   
 $\frac{3}{4} \xleftarrow{\times 3}$

Convert the fractions so that they have the same denominator by finding a common multiple of the denominators. Then, add or subtract the numerators.

1)

$$\frac{3}{5} + \frac{5}{6} + \frac{1}{3} = \frac{\square}{30}$$

$\frac{3}{5} \xrightarrow{\times \square} \frac{\square}{30}$   
 $\frac{3}{5} \xleftarrow{\times \square}$

$\frac{5}{6} \xrightarrow{\times \square} \frac{\square}{30}$   
 $\frac{5}{6} \xleftarrow{\times \square}$

$\frac{1}{3} \xrightarrow{\times \square} \frac{\square}{30}$   
 $\frac{1}{3} \xleftarrow{\times \square}$

2)  $\frac{5}{6} - \frac{1}{9}$

$$\frac{\square}{18} - \frac{\square}{18} = \frac{\square}{18}$$

3)  $\frac{7}{8} + \frac{11}{12} + \frac{2}{4}$

$$\frac{\square}{24} + \frac{\square}{24} + \frac{\square}{24} = \frac{\square}{24}$$

4)  $\frac{4}{8} - \frac{1}{7}$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

5)  $\frac{4}{9} + \frac{1}{6} + \frac{3}{4}$

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

