

# Adding and Subtracting Fractions with Different Denominators

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

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)

$$\frac{3}{8} + \frac{3}{4} + \frac{4}{6} = \frac{\boxed{\phantom{000}}}{24}$$

2)

$$\frac{1}{3} + \frac{2}{4} + \frac{4}{6}$$

$$\frac{\boxed{\phantom{00}}}{12} + \frac{\boxed{\phantom{00}}}{12} + \frac{\boxed{\phantom{00}}}{12} = \frac{\boxed{\phantom{00}}}{12}$$

3)

$$\frac{1}{5} + \frac{3}{4} + \frac{7}{10}$$

$$\frac{\boxed{\phantom{00}}}{20} + \frac{\boxed{\phantom{00}}}{20} + \frac{\boxed{\phantom{00}}}{20} = \frac{\boxed{\phantom{00}}}{20}$$

4)

$$\frac{3}{6} - \frac{1}{10}$$

$$\frac{\boxed{\phantom{00}}}{30} - \frac{\boxed{\phantom{00}}}{30} = \frac{\boxed{\phantom{00}}}{30}$$

5)

$$\frac{4}{5} - \frac{1}{3}$$

$$\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Can you find a common multiple of 5 and 3 to use as the denominator?



# Adding and Subtracting Fractions with Different Denominators

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

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

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

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

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)

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

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

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

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

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

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



# Adding and Subtracting Fractions with Different Denominators

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

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

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

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)  $\frac{3}{8} - \frac{1}{5}$

$$\frac{\square}{40} - \frac{\square}{40} = \frac{\square}{40}$$

2)  $\frac{7}{9} + \frac{4}{5} + \frac{2}{3}$

$$\frac{\square}{45} + \frac{\square}{45} + \frac{\square}{45} = \frac{\square}{45}$$

3)  $\frac{15}{16} - \frac{7}{12}$

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

4)  $\frac{6}{18} + \frac{11}{12} + \frac{4}{9}$

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

5)  $\frac{5}{8} + \frac{7}{11} + \frac{3}{4}$

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

6)  $\frac{13}{16} - \frac{6}{10}$

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

