

# Add Fractions with Unlike Denominators



You can use fraction strips to help you record the steps when you add unlike fractions.

Add  $\frac{2}{3} + \frac{1}{6}$ .

| Using Fraction Strips  | Using Pencil and Paper  |
|--|---|
| <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{3}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{3}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> <div style="border: 1px solid black; padding: 2px; text-align: center;"><math>\frac{1}{6}</math></div> </div> <p style="margin-top: 20px;"><math>\frac{2}{3} + \frac{1}{6}</math></p> <p><math>\frac{4}{6} + \frac{1}{6} = \frac{5}{6}</math></p> | <p>Find equivalent fractions.</p> $\frac{2}{3} = \frac{4}{6}$ <p>Add the numerators. Use the common denominator.</p> $\begin{array}{r} \frac{4}{6} \\ + \frac{1}{6} \\ \hline \frac{5}{6} \end{array}$ <p>Write the answer in simplest form if necessary.</p> |

Find each equivalent fraction. Then add. Write the sum in simplest form. You may use fraction strips to help you add.

1.  $\frac{1}{8} = \frac{\square}{8}$

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

2.  $\frac{1}{3} = \frac{\square}{12}$

$$\begin{array}{r} \frac{1}{3} \\ + \frac{7}{12} \\ \hline \end{array}$$

3.  $\frac{4}{5} = \frac{\square}{10}$

$$\begin{array}{r} \frac{4}{5} \\ + \frac{2}{10} \\ \hline \end{array}$$

4.  $\frac{1}{2} = \frac{\square}{6}$

$$\begin{array}{r} \frac{1}{2} \\ + \frac{1}{3} \\ \hline \end{array}$$

5.  $\frac{6}{10} = \frac{\square}{10}$

$$\begin{array}{r} \frac{6}{10} \\ + \frac{1}{5} \\ \hline \end{array}$$

6.  $\frac{3}{4} = \frac{9}{\square}$

$$\begin{array}{r} \frac{3}{4} \\ + \frac{1}{6} \\ \hline \end{array}$$

7.  $\frac{7}{8} = \frac{\square}{\square}$

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

8.  $\frac{9}{10} = \frac{\square}{\square}$

$$\begin{array}{r} \frac{9}{10} \\ + \frac{3}{5} \\ \hline \end{array}$$

9.  $\frac{7}{12}$

$$\begin{array}{r} \frac{7}{12} \\ + \frac{2}{6} \\ \hline \end{array}$$

10.  $\frac{1}{3}$

$$\begin{array}{r} \frac{1}{3} \\ + \frac{1}{6} \\ \hline \end{array}$$

11.  $\frac{1}{4}$

$$\begin{array}{r} \frac{1}{4} \\ + \frac{1}{2} \\ \hline \end{array}$$

12.  $\frac{5}{12}$

$$\begin{array}{r} \frac{5}{12} \\ + \frac{1}{4} \\ \hline \end{array}$$