

Name \_\_\_\_\_

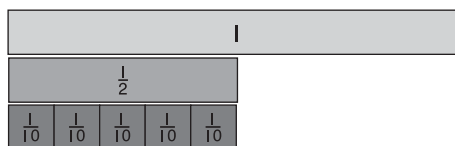
# Subtraction with Unlike Denominators

You can use fraction strips to help you subtract fractions with unlike denominators. Trade fraction strips of fractions with unlike denominators for equivalent strips of fractions with like denominators.

**Use fraction strips to find the difference. Write your answer in simplest form.**

$$\frac{1}{2} - \frac{1}{10}$$

**Step 1** Use a  $\frac{1}{2}$  fraction strip to model the first fraction.

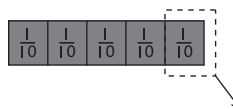


**Step 2** Trade the  $\frac{1}{2}$  strip for five  $\frac{1}{10}$  strips.

$$\frac{1}{2} - \frac{1}{10} = \frac{5}{10} - \frac{1}{10}$$

**Step 3** Subtract by taking away  $\frac{1}{10}$ .

$$\frac{5}{10} - \frac{1}{10} = \frac{4}{10}$$



So,  $\frac{1}{2} - \frac{1}{10} = \frac{4}{10}$ . Written in simplest form,  $\frac{4}{10} = \frac{2}{5}$ .

**Use fraction strips to find the difference. Write your answer in simplest form.**

1.  $\frac{7}{8} - \frac{1}{2}$

2.  $\frac{2}{3} - \frac{1}{4}$

3.  $\frac{5}{6} - \frac{1}{3}$

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4.  $\frac{1}{2} - \frac{1}{3}$

5.  $\frac{9}{10} - \frac{4}{5}$

6.  $\frac{2}{3} - \frac{5}{12}$

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Name \_\_\_\_\_

# Fraction Strip Subtraction

Find the difference between the fraction shown by the strips in the first column and each of the three fractions shown by the strips in the second column. Write each difference in simplest form in the third column.

<p><b>1.</b></p> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div>	<p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{3}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{3}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{2}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> </p>	<p>=</p> <p>=</p> <p>=</p>
<p><b>2.</b></p> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{6}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{6}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{6}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{6}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{6}</math> </div>	<p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{2}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{3}</math> </div></p>	<p>=</p> <p>=</p> <p>=</p>
<p><b>3.</b></p> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{8}</math> </div>	<p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{2}</math> </div></p> <p>– <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div> <div style="border: 1px solid black; display: inline-block; padding: 2px;"> <math>\frac{1}{4}</math> </div> </p>	<p>=</p> <p>=</p> <p>=</p>

**4. Stretch Your Thinking** Label the fraction strips to complete the equation.

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$\frac{1}{10}$