## Another Look!

Find $\frac{1}{6}+\frac{5}{8}$.
Remember: A multiple is a product of the

## Additional

Practice 7-3
Add Fractions with Unlike Denominators

## Step 1

List multiples of the denominators.

Look for a multiple that is the same in both lists. Choose the least one.
$6: 6,12,18,24,30,36,42,48$
8: $8,16,24,32,40,48$
24 and 48 are common multiples of 6 and 8.24 is the lesser of the two.

## Step 2

Write equivalent fractions using the common multiple as the denominator.

$$
\begin{array}{ll}
\frac{1}{6} & \frac{1 \times 4}{6 \times 4}=\frac{4}{24} \\
\frac{5}{8} & \frac{5 \times 3}{8 \times 3}=\frac{15}{24}
\end{array}
$$

## Step 3

Add the fractions to find the total number of twenty-fourths.

$$
\begin{gathered}
\frac{4}{24}+\frac{15}{24}= \\
\frac{4+15}{24}=\frac{19}{24} \\
\text { So, } \frac{1}{6}+\frac{5}{8}=\frac{19}{24} .
\end{gathered}
$$

In 1-4, find each sum.

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

Least multiple that is the same:
Add using renamed fractions:

3. $\frac{4}{5}+\frac{1}{15}$

Least multiple that is the same:
Add using renamed fractions:
$\square$ $+$ $\qquad$ $=$ $\qquad$
2. $\frac{1}{9}+\frac{5}{6}$

Least multiple that is the same:
Add using renamed fractions:

4. $\frac{2}{8}+\frac{1}{2}$

Least multiple that is the same: $\qquad$
Add using renamed fractions:

$$
+
$$

$\qquad$ $=$

5. Model with Math Before school, Janine spends $\frac{1}{10}$ hour making the bed, $\frac{1}{5}$ hour getting dressed, and $\frac{1}{2}$ hour eating breakfast. What fraction of an hour does she spend doing these activities? Complete the drawing of fraction strips to show the solution.
6. enVision ${ }^{\circledR}$ STEM Hair color is an inherited trait. In Marci's family, her mother has brown hair. Her father has blond hair. The family has 6 children in all. Of the 6 children, $\frac{1}{3}$ of them have blond hair, $\frac{1}{6}$ of them have red hair, and $\frac{1}{2}$ of them have brown hair. What fraction of the children have red or brown hair?
7. Abdul bought a loaf of bread for $\$ 1.59$ and a package of cheese for $\$ 2.69$. How much did Abdul spend? Complete the diagram below.

8. Higher Order Thinking Robert wants to walk one mile for exercise each day. He made a table to show the distance from his home to each of four different places.

| Walking Distances from Home to Each Place |  |
| :---: | :---: |
| Place | Distance |
| Bank | $\frac{1}{5}$ mile |
| Library | $\frac{1}{10}$ mile |
| Park | $\frac{1}{2}$ mile |
| Store | $\frac{1}{4}$ mile |

## Assessment Practice

9. Which equations are true when $\frac{2}{3}$ is placed in the box?

$$
\begin{aligned}
& \square \frac{1}{3}+\frac{1}{3}=\square \\
& \square \frac{1}{6}+\frac{1}{6}=\square \\
& \square \\
& \square+\frac{6}{9}=\frac{4}{3} \\
& \square \frac{2}{5}+\square=\frac{14}{15}
\end{aligned}
$$

10. Which equations are true when $\frac{4}{5}$ is placed in the box?

$$
\begin{aligned}
& \square \frac{1}{5}+\square=1 \\
& \square \frac{1}{2}+\frac{3}{10}=\square \\
& \square \frac{7}{10}+\frac{1}{10}=\square \\
& \square \square+\frac{1}{15}=\frac{14}{15}
\end{aligned}
$$

