

# Adding Mixed Numbers

1. Add. First write equivalent fractions with a common denominator.

<b>a.</b> $1 \frac{1}{2} + 5 \frac{1}{4}$ <div style="text-align: center; margin-top: 10px;"> <math>\downarrow \quad \downarrow</math>  </div>	<b>b.</b> $2 \frac{1}{3} + 3 \frac{1}{4}$ <div style="text-align: center; margin-top: 10px;"> <math>\downarrow \quad \downarrow</math>  </div>	<b>c.</b> $3 \frac{3}{5} + 6 \frac{3}{10}$ <div style="text-align: center; margin-top: 10px;"> <math>\downarrow \quad \downarrow</math>  </div>	<b>d.</b> $5 \frac{1}{6} + 2 \frac{3}{8}$ <div style="text-align: center; margin-top: 10px;"> <math>\downarrow \quad \downarrow</math>  </div>
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2. Add. Rename the result if needed, and give it in the lowest terms.

<b>a.</b> $\begin{array}{r} 3 \frac{7}{12} \\ + 1 \frac{8}{12} \\ \hline 4 \frac{15}{12} = 5 \frac{3}{12} = 5 \frac{1}{4} \end{array}$	<b>b.</b> $\begin{array}{r} 6 \frac{5}{8} \\ + 3 \frac{5}{8} \\ \hline \end{array}$	<b>c.</b> $\begin{array}{r} 4 \frac{5}{11} \\ + 2 \frac{9}{11} \\ \hline \end{array}$
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3. Add. First write equivalent fractions with the same denominator. Rename the result if needed, and give it in the lowest terms.

<b>a.</b> $3 \frac{3}{4} \rightarrow 3 \frac{3}{4}$ $+ 1 \frac{1}{2} \rightarrow + 1 \frac{2}{4}$ <hr style="width: 100%;"/> $4 \frac{5}{4} = 5 \frac{1}{4}$	<b>b.</b> $6 \frac{7}{10} \rightarrow$ $+ 1 \frac{1}{2} \rightarrow +$ <hr style="width: 100%;"/>	<b>c.</b> $4 \frac{4}{9} \rightarrow$ $+ 4 \frac{2}{3} \rightarrow +$ <hr style="width: 100%;"/>
<b>d.</b> $7 \frac{3}{8} \rightarrow$ $+ 8 \frac{1}{6} \rightarrow +$ <hr style="width: 100%;"/>	<b>e.</b> $4 \frac{3}{5} \rightarrow$ $+ 7 \frac{1}{2} \rightarrow +$ <hr style="width: 100%;"/>	<b>f.</b> $12 \frac{3}{4} \rightarrow$ $+ 14 \frac{1}{8} \rightarrow +$ <hr style="width: 100%;"/>

4. Solve the problems.

- a. If you put two boards  $\frac{7}{16}$  inches thick on top of each other, how thick is the double board?
- b. A book cover has to go  $\frac{5}{8}$  inches over the edges of the book, on all sides. What are the dimensions of the cover for a book that measures 8 x 11 inches and is  $\frac{7}{8}$  inch thick?

It helps to draw a picture of the opened book.