

5.3 Adding and Subtracting Mixed Numbers

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Find the sum. Write the answer in simplest form.

$$3\frac{1}{8} + 1\frac{5}{6}$$

$$\begin{array}{r} 3\frac{1}{8} = 3\frac{3}{24} \\ + 1\frac{5}{6} = 1\frac{20}{24} \\ \hline 4\frac{23}{24} \end{array}$$

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Find the difference. Write the answer in simplest form.

$$5\frac{2}{3} - 1\frac{1}{4}$$

$$\begin{array}{r} 5\frac{2}{3} = 5\frac{8}{12} \\ - 1\frac{1}{4} = 1\frac{3}{12} \\ \hline 4\frac{5}{12} \end{array}$$

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$$2\frac{1}{2} + 4\frac{4}{5}$$

$$\begin{array}{r} 2\frac{1}{2} = 2\frac{5}{10} \\ + 4\frac{4}{5} = 4\frac{8}{10} \\ \hline 6\frac{13}{10} = 7\frac{3}{10} \end{array}$$

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$$6\frac{2}{3} - 3\frac{2}{9}$$

$$\begin{array}{r} 6\frac{2}{3} = 6\frac{6}{9} \\ - 3\frac{2}{9} \\ \hline 3\frac{4}{9} \end{array}$$

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

$$\begin{array}{r} 2\frac{1}{4} = 2\frac{3}{12} \\ + 3\frac{1}{6} = 3\frac{2}{12} \\ \hline 5\frac{5}{12} \end{array}$$

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$$\begin{array}{r}
 4 \frac{1}{2} - 1 \frac{3}{7} \\
 4 \frac{1 \cdot 7}{2 \cdot 7} \frac{7}{14} \\
 - 1 \frac{3 \cdot 2}{7 \cdot 2} \frac{6}{14} \\
 \hline
 3 \frac{1}{14}
 \end{array}$$

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$$\begin{array}{r}
 2 \frac{7}{8} + 4 \frac{2}{3} \\
 2 \frac{7 \cdot 3}{8 \cdot 3} \frac{21}{24} \\
 + 4 \frac{2 \cdot 8}{3 \cdot 8} \frac{16}{24} \\
 \hline
 7 \frac{13}{24}
 \end{array}$$

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