

Fractions & Mixed Numbers- Sum & Difference

(with Common Denominators)

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Just as with fractions, mixed numbers require common denominators when adding or subtracting.

$$1) \quad 3\frac{2}{9} + 10\frac{5}{9}$$

$$\begin{array}{r} 10\frac{5}{9} \\ + 3\frac{2}{9} \\ \hline 13\frac{7}{9} \end{array}$$

$$3) \quad 8\frac{4}{7} + \frac{2}{7}$$

$$\begin{array}{r} 8\frac{4}{7} \\ + \frac{2}{7} \\ \hline 8\frac{6}{7} \end{array}$$

$$2) \quad 14\frac{8}{11} - 2\frac{5}{11}$$

$$\begin{array}{r} 14\frac{8}{11} \\ - 2\frac{5}{11} \\ \hline 12\frac{3}{11} \end{array}$$

$$4) \quad 5\frac{8}{13} - \frac{6}{13}$$

$$\begin{array}{r} 5\frac{8}{13} \\ - \frac{6}{13} \\ \hline 5\frac{2}{13} \end{array}$$

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$$5) \quad 4\frac{3}{5} + 8\frac{2}{5}$$

$$\begin{array}{r} 8\frac{2}{5} \\ + 4\frac{3}{5} \\ \hline 12\frac{5}{5} \end{array} \downarrow$$

$$= 12 + 1 = \boxed{13}$$

$$7) \quad 10\frac{5}{7} + 3\frac{4}{7}$$

$$\begin{array}{r} 10\frac{5}{7} \\ + 3\frac{4}{7} \\ \hline 13\frac{9}{7} \end{array} \downarrow$$

$$= 13 + 1\frac{2}{7} = \boxed{14\frac{2}{7}}$$

$$6) \quad 13\frac{2}{7} - 5\frac{6}{7}$$

$$\begin{array}{r} 13\frac{2}{7} \\ - 5\frac{6}{7} \\ \hline \end{array}$$

$\overset{2}{\cancel{13}}\frac{2}{7} + \boxed{\frac{7}{7}} \rightarrow 12\frac{9}{7}$

$\rightarrow 5\frac{6}{7} \rightarrow 5\frac{6}{7}$

$$\begin{array}{r} 12\frac{9}{7} \\ - 5\frac{6}{7} \\ \hline 7\frac{3}{7} \end{array}$$

~~14~~

$$8) \quad 16\frac{5}{8} - 3\frac{7}{8}$$

$$\begin{array}{r} 16\frac{5}{8} \\ - 3\frac{7}{8} \\ \hline \end{array}$$

$\overset{5}{\cancel{16}}\frac{5}{8} + \frac{8}{8} \rightarrow 15\frac{13}{8}$

$\rightarrow 3\frac{7}{8} \rightarrow 3\frac{7}{8}$

$$\begin{array}{r} 15\frac{13}{8} \\ - 3\frac{7}{8} \\ \hline 12\frac{6}{8} \end{array}$$

$$= \boxed{12\frac{3}{4}}$$