



Name \_\_\_\_\_ Date \_\_\_\_\_

# Adding and Subtracting Mixed Numbers

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Use the following rules to add and subtract mixed numbers.

### Adding and Subtracting Mixed Numbers

- Add or subtract the fractions.
- Then add or subtract the whole numbers.
- Rename and simplify if necessary.

### EXAMPLES

**A** Find  $5\frac{5}{8} + 1\frac{1}{8}$ .

Add the fractions. Add the whole numbers.

$$\begin{array}{r} 5\frac{5}{8} \\ +1\frac{1}{8} \\ \hline 6\frac{6}{8} \end{array} \rightarrow \begin{array}{r} 5\frac{5}{8} \\ +1\frac{1}{8} \\ \hline 6\frac{6}{8} \text{ or } 6\frac{3}{4} \end{array} \text{ Simplify.}$$

**B** Find  $3\frac{5}{6} - 2\frac{1}{2}$ .

Subtract the fractions. Subtract the whole numbers.

$$\begin{array}{r} 3\frac{5}{6} \\ -2\frac{1}{2} \\ \hline \end{array} \rightarrow \begin{array}{r} 3\frac{5}{6} \\ -2\frac{3}{6} \\ \hline 1\frac{2}{6} \end{array} \rightarrow \begin{array}{r} 3\frac{5}{6} \\ -2\frac{3}{6} \\ \hline 1\frac{2}{6} \text{ or } 1\frac{1}{3} \end{array} \text{ Simplify.}$$

### Try These Together

Add or subtract. Write the answer in simplest form.

1.  $7\frac{1}{4} + 10\frac{1}{2}$

*HINT: Rename the fractions. Add the fractions. Then add the whole numbers.*

2.  $9\frac{11}{12} - 4\frac{3}{8}$

*HINT: Rename the fractions. Subtract the fractions. Then subtract the whole numbers.*

### PRACTICE

Add or subtract. Write the answer in simplest form.

3.  $2\frac{1}{3} + 5\frac{3}{8}$

4.  $9\frac{3}{5} - 2\frac{3}{15}$

5.  $5\frac{2}{3} + 3\frac{1}{2}$

6.  $8\frac{1}{3} - 6\frac{1}{4}$

7.  $15\frac{7}{8} - 12\frac{3}{4}$

8.  $8\frac{5}{12} - 2\frac{1}{8}$

9.  $1\frac{7}{10} + 4\frac{1}{3}$

10.  $9\frac{1}{3} + 5\frac{5}{6}$

11.  $4\frac{3}{4} - 2\frac{2}{3}$



**12. Standardized Test Practice** A bag of potatoes weighs  $5\frac{3}{4}$  pounds. At the

first meal,  $1\frac{1}{3}$  pounds of potatoes are eaten. At a later meal,  $2\frac{1}{4}$  pounds of potatoes are eaten. How many pounds of potatoes remain in the bag?

**A**  $2\frac{1}{6}$

**B**  $2\frac{1}{3}$

**C**  $1\frac{5}{6}$

**D**  $2\frac{2}{3}$

Answer: 1.  $17\frac{4}{4}$  2.  $5\frac{24}{24}$  3.  $7\frac{24}{24}$  4.  $7\frac{5}{2}$  5.  $9\frac{6}{1}$  6.  $2\frac{12}{1}$  7.  $3\frac{8}{1}$  8.  $6\frac{24}{7}$  9.  $6\frac{30}{1}$  10.  $15\frac{6}{1}$  11.  $2\frac{12}{1}$  12. A