

# Adding Fractions and Mixed Numbers

## Home Link 5-3

NAME \_\_\_\_\_

DATE \_\_\_\_\_

TIME \_\_\_\_\_

Estimate and then solve. Show your work. Use your estimates to check your answers. **Remember:** Before adding fractions and mixed numbers with different denominators, you must rename one or both fractions so both fractions have a common denominator.



**Example:**  $2\frac{3}{5} + 4\frac{2}{3} = ?$

- Find a common denominator for the fraction parts. The quick common denominator for  $\frac{3}{5}$  and  $\frac{2}{3}$  is the product of the denominators,  $5 * 3$ , or 15.

- Use the multiplication rule for equivalent fractions to rename each fraction so both fractions have the common denominator.

$$\begin{array}{r} 2\frac{3}{5} \\ + 4\frac{2}{3} \\ \hline \end{array} \rightarrow \begin{array}{r} 2\frac{9}{15} \\ + 4\frac{10}{15} \\ \hline 6\frac{19}{15} \end{array}$$

- Add.

- Rename the sum.  $6\frac{19}{15} = 6 + \frac{15}{15} + \frac{4}{15} = 6 + 1 + \frac{4}{15} = 7 + \frac{4}{15} = 7\frac{4}{15}$

① Estimate: Answers vary.

$$3\frac{4}{6} + 2\frac{1}{6} = \underline{5\frac{5}{6}}$$

② Estimate: Answers vary.

$$6\frac{1}{3} + 2\frac{1}{6} = \underline{8\frac{3}{6}}$$

③ Estimate: Answers vary.

$$\frac{3}{4} + \frac{7}{12} = \underline{1\frac{4}{12}}$$

④ Estimate: Answers vary.

$$15\frac{1}{2} + 12\frac{2}{5} = \underline{27\frac{9}{10}}$$

## Practice

Write each decimal using numerals.

⑤ three and six hundred twenty-four thousandths 3.624

⑥ fourteen and twelve thousandths 14.012

Write each decimal using words.

⑦ 1.46 One and forty-six hundredths

⑧ 4.309 Four and three hundred nine thousandths