## 5-8 Multiplying Mixed Numbers

## EXAMPLE Multiply a Fraction and a Mixed Number

## MAIN IDEA

- Multiply mixed numbers.
(1) Find $\frac{1}{3} \times 6 \frac{3}{7}$.

Estimate Use compatible numbers $\longrightarrow \frac{1}{3} \times \square=\square$

Check Your Progress Find $\frac{1}{4} \times 4 \frac{2}{5}$.
$\square$

## KEy Concept

Multiplying Mixed Numbers To multiply mixed numbers, write the mixed numbers as improper fractions and then multiply as with fractions.

## EXAMPLE Multiply Mixed Numbers

2 DISTANCES Belinda lives $1 \frac{1}{2}$ times farther from school than Jamie does. If Jamie lives $4 \frac{1}{5}$ miles from school, how far from school does Belinda live?
Jamie lives $4 \frac{1}{5}$ miles from school. Multiply $4 \frac{1}{5}$ by $1 \frac{1}{2}$.


First, write mixed numbers as improper fractions.

Then, multiply the numerators and the denominators.

Simplify.

Belinda lives $\square$ miles from school.

EXAMPLE Evaluate Expressions
(3) ALGEBRA If $r=3 \frac{3}{4}$ and $s=2 \frac{4}{5}$, what is the value of $r s$ ?


Divide the numerator and


Simplify.

## Homework

 AssignmentPage(s):
Exercises:
Check Your Progress ALGEBRA If $m=2 \frac{5}{8}$ and $n=4 \frac{4}{7}$, what is the value of $n m$ ?


