## 4-3 Mixed Numbers and Improper Fractions

## MAIN IDEA

- Write mixed numbers as improper fractions and vice versa.


## FOLDABLES

## ORGANIZE IT

Summarize how mixed numbers can be written as improper fractions and improper fractions can be written as mixed numbers under the fraction tab of your Foldable.


## BUILD YOUR VOGABULARY (pages 86-87)

A mixed number indicates the sum of a


A proper fraction is a fraction in which the numerator is
$\square$ the denominator.

An improper fraction is a fraction in which the numerator is
$\square$ or equal to the denominator.

## EXAMPLE Mixed Numbers as Improper Fractions

ASTRONOMY If a spaceship lifts off the Moon, it must travel at a speed of $2 \frac{2}{5}$ kilometers per second in order to escape the pull of the Moon's gravity. Write this speed as an improper fraction.


## Remember It

Improper fractions that are equal to 1 , such as $\frac{1}{1}$ and $\frac{9}{9}$, cannot be written as mixed numbers.

Check Your Progress
EXERCISE As part of a regular exercise program, Max walks $2 \frac{3}{8}$ miles each morning. Write this distance as an improper fraction.

## EXAMPLE Improper Fractions as Mixed Numbers

2 Write $\frac{23}{4}$ as a mixed number.
Divide 23 by 4 .

-20
3


So, $\frac{23}{4}=\square$

Check Your Progress Write $\frac{23}{3}$ as a mixed number.

