## 10-3 Area of Parallelograms

## MAIN IDEA

- Find the areas of parallelograms.


## Key Concept

Area of a Parallelogram The area $A$ of a parallelogram is the product of any base $b$ and its height $h$.

FOLDABLES Write the formula for the area of a parallelogram on your Foldable.

## BUILD YoUR Vocabulary (pages 241-242)

The base of a parallelogram can be any one of its $\square$ The shortest distance from the base to the $\qquad$ side is the height of a parallelogram.

## EXAMPLES Find Areas of Parallelograms

## Find the area of each parallelogram.



The area is $\square$ square units or $\square$


Replace $b$ with $\square$ and $h$ with
 $A=$ $\square$ Multiply.

The area is $\square$ square centimeters or $\square$

Check Your Progress parallelogram.
a.


## EXAMPLE

3 INTERIOR DESIGN Find the area of the floor that the rug will cover.

The area rug is a parallelogram, so use the formula $A=b h$.


Area of parallelogram
 with
 $10 \frac{1}{2}=\frac{21}{2}, 6 \frac{1}{4}=\frac{25}{4}$.

The area rug will cover $\square$ square feet.

## Check Your Progress

## ART

Find the area of the mural that John needs to paint.


