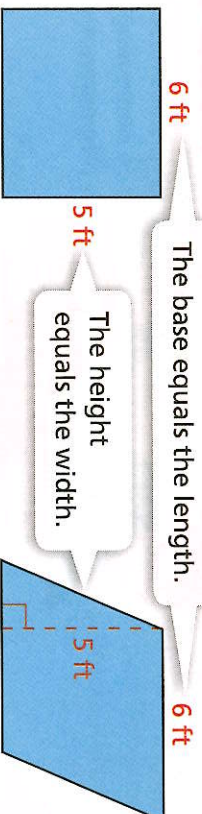




You can decompose a parallelogram and compose a rectangle to find the area of a parallelogram or a rhombus. The formula for the area of a rectangle,  $A = \ell \times w$ , can be written as the formula  $A = b \times h$  to find the area of a parallelogram or the area of a rhombus.

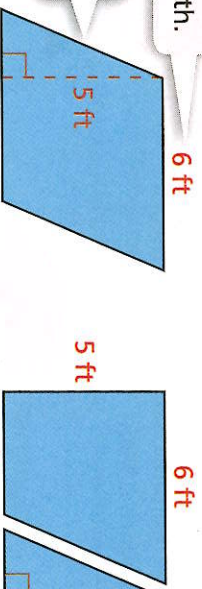


Rectangle

$$A = \ell \times w$$

$$A = 6 \times 5$$

$$= 30 \text{ ft}^2$$



Parallelogram

$$A = b \times h$$

$$A = 6 \times 5$$

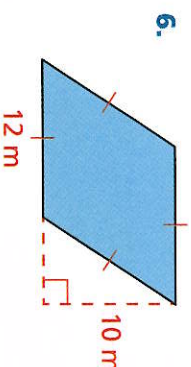
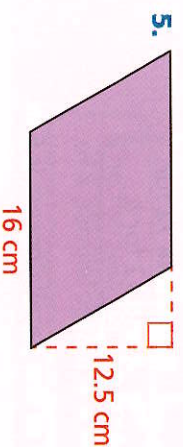
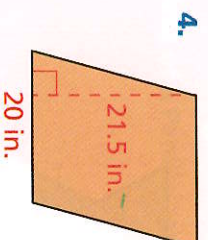
$$= 30 \text{ ft}^2$$

## Do You Understand?

- Essential Question** How can you use the area formula of a rectangle to find the area formula of a parallelogram?

## Do You Know How?

In 4–6, use a formula to find the area.



- Ken combined a triangle and a trapezoid to make a parallelogram. If the area of the triangle is  $12 \text{ in.}^2$  and the area of the trapezoid is  $24 \text{ in.}^2$ , what is the area of the parallelogram? Explain.
- Critique Reasoning** A parallelogram is 3 meters long and 7 meters high. Liam said that the parallelogram's area is greater than the area of a rectangle with the same dimensions. Is he correct? Explain.

- A rhombus has an area of  $440 \text{ m}^2$  and a base of 22 m. What is its height?

