

## MAIN IDEA

- Find the areas of triangles.

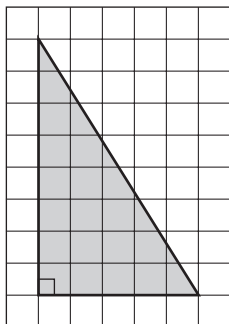
## KEY CONCEPT

**Area of a Triangle** The area  $A$  of a triangle is one half the product of the base  $b$  and its height  $h$ .

## EXAMPLES Find the Area of a Triangle

Find the area of each triangle.

1



By counting, you find that the measure of the base is  units and the height is  units.

$$A = \frac{bh}{2}$$

Area of a triangle

$$A = \frac{\boxed{\phantom{00}} \times \boxed{\phantom{00}}}{2}$$

Replace  $b$  with  and  $h$  with .

$$A = \frac{\boxed{\phantom{00}}}{2}$$

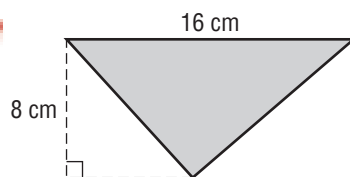
Simplify the numerator.

$$A = \boxed{\phantom{00}}$$

Divide.

The area of the triangle is .

1



$$A = \frac{bh}{2}$$

Area of a triangle

$$A = \frac{\boxed{\phantom{00}} \times \boxed{\phantom{00}}}{2}$$

Replace  $b$  with  and  $h$  with .

$$A = \frac{\boxed{\phantom{00}}}{2}$$

Simplify the numerator.

$$A = \boxed{\phantom{00}}$$

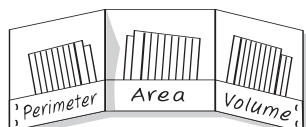
Divide.

The area of the triangle is .

**FOLDABLES**

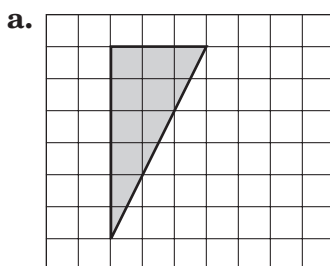
**ORGANIZE IT**

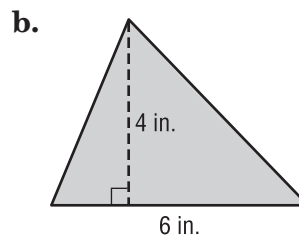
Write the formula for the area of a triangle on your Foldable.



**Check Your Progress**

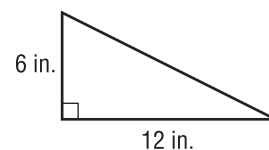
Find the area of each triangle.






**EXAMPLE**

**BANNER** Ari cut out a banner in the shape of a triangle. What is the area of the banner?



$$A = \boxed{\phantom{000}}$$

Area of a triangle

$$A = \boxed{\phantom{000}}$$

Replace  $b$  with  $\boxed{\phantom{00}}$  and  $h$  with  $\boxed{\phantom{00}}$ .

$$A = \boxed{\phantom{000}}$$

Simplify the numerator.

$$A = \boxed{\phantom{000}}$$

Divide.

The area of the banner is  $\boxed{\phantom{00}}$  square inches.

**Check Your Progress**

Rachael decides to purchase a triangular pennant to hang on her bedroom wall as a souvenir of the baseball game she attended. If the base of the pennant is 9 inches and the height is 25 inches, how many square inches of her wall will be covered by the pennant? Round to the nearest tenth.

**HOMEWORK ASSIGNMENT**

Page(s):

Exercises: