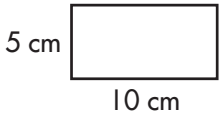
NAME _____

Lesson 5.9 Area: Rectangles

The **area** of a figure is the number of square units inside that figure. Area is expressed in **square units** or **units^2**.

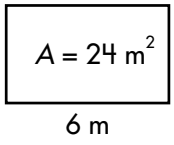
The area of a rectangle is the product of its length and its width.



$A = \ell \times w$
$A = 5 \times 10 = 50 \text{ cm}^2$

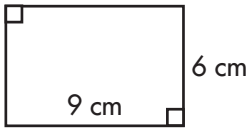
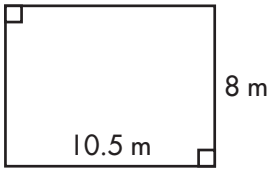
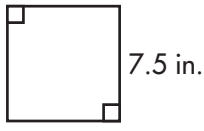
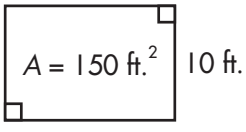
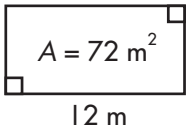
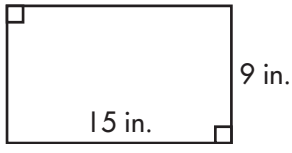
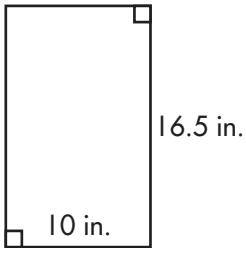
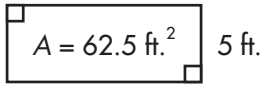
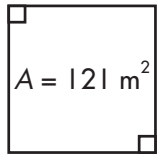
$A = 5 \times 5$
$A = 5 \times 5 \text{ or } 5^2$
$A = 25 \text{ cm}^2$

If you know the area of a rectangle and either its length or its width, you can determine the unknown measure.



$A = \ell \times w$
$24 = 6 \times w$
$\frac{24}{6} = \frac{6w}{6}$
$4 = w$
The width is 4 meters.

Find the unknown measure for each rectangle.

	a	b	c
1.	 area = _____ cm^2	 area = _____ m^2	 area = _____ in.^2
2.	 length = _____ ft.	 width = _____ m	 area = _____ in.^2
3.	 area = _____ in.^2	 length = _____ ft.	 side = _____ m