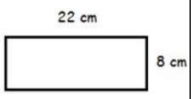
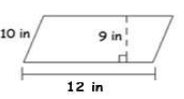
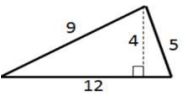
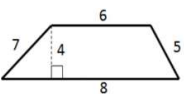
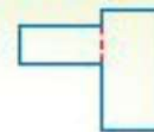


Additional Practice with Area

Name of Polygon	Rectangle	Parallelogram	Triangle	Trapezoid
Picture				
Write the formula	$A = bh$	$A = bh$	$A = \frac{1}{2}bh$	$A = h \frac{(b_1 + b_2)}{2}$
Substitute for the variables (Show work)				
Solve. Include square units in your answer.	176 cm ²	108 in ²	24 units ²	28 units ²

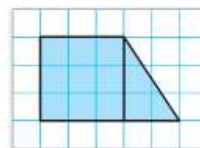
Area of Composite Figures

A **composite figure** is a figure made of two or more two-dimensional figures. The composite figure shown to the right is made of two rectangles.



Find the Area of a Composite Figure

You can decompose some trapezoids into a square and a triangle to find the area.



Area of Square

$$A = \ell \cdot w$$

$$A = 3 \cdot 3, \text{ or } 9$$

Area of Triangle

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(2)(3), \text{ or } 3$$

Then add the area of the square and the area of the triangle to find the area of the trapezoid. The area of the trapezoid is $9 + 3$ or 12 square units.

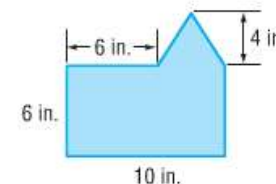
You can find the area of a composite figure using the same strategy. To find the area of a composite figure, separate it into figures with areas you know how to find. Then add those areas.

Example

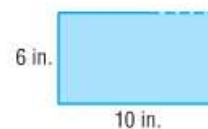


- Find the area of the figure at the right.

The figure can be separated into a rectangle and a triangle. Find the area of each.



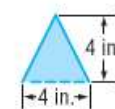
Area of Rectangle



$$A = \ell w$$

$$A = 10 \cdot 6 \text{ or } 60$$

Area of Triangle



$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(4)(4) \text{ or } 8$$

The base of the triangle is $10 - 6$ or 4 inches.

The area is $60 + 8$ or 68 square inches.