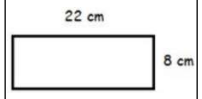
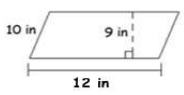
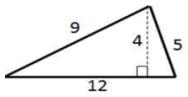
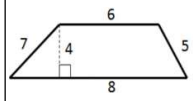
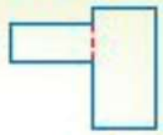
Additional Practice with Area

Name of Polygon				
Picture				
Write the formula				
Substitute for the variables (Show work)				
Solve. Include square units in your answer.				

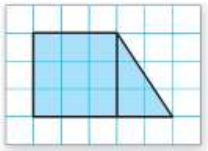
Area of Composite Figures

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

$A = \ell \cdot w$

$A = 3 \cdot 3$, or 9

Area of Triangle

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

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

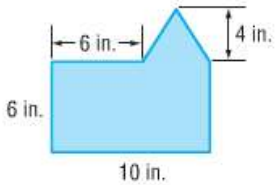
You can find the area of a composite figure using the same strategy. To find the area of a composite figure, separate it into figures with areas you know how to find. Then add those areas.

Example

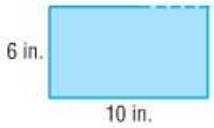
Tutor

1. **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



$A = \ell w$

$A = 10 \cdot 6$ or 60

Area of Triangle

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

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

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

The area is 60 + 8 or 68 square inches.