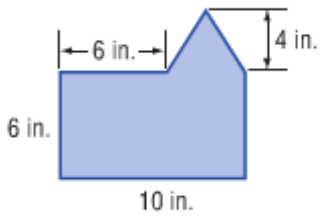
Name: _____ Date: _____

Area of Composite Figures

Think of it like a puzzle. Break the figure up into figures you know how to find the area of and add the areas together.

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

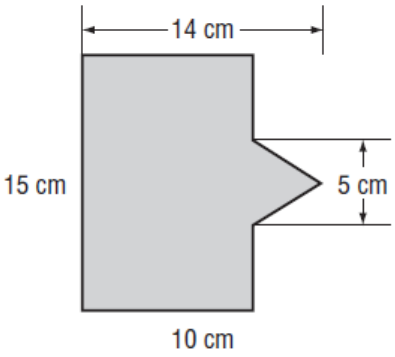
The base of the triangle is 10 − 6 or 4 inches.

The area is 60 + 8 or 68 square inches.

EXAMPLE **Find the Area of a Composite Figure**

1 **Find the area of the figure in square centimeters.**

The figure can be separated into a [ ] and a [ ]. Find the area of each.



Area of Rectangle

$A = \ell w$

$A = 15 \cdot 10$ or [ ]

Area of Triangle

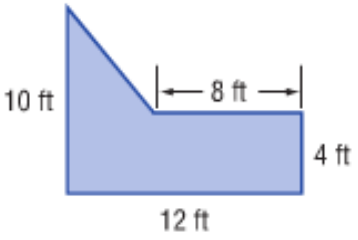
$A = \frac{1}{2}bh$

$A = \frac{1}{2}(5)(4)$ or [ ]

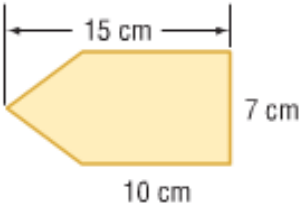
The area is 150 + 10 or [ ] square centimeters.

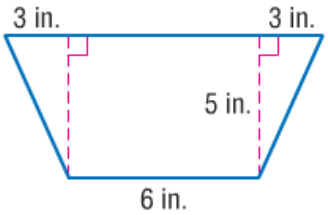
Find the area of each figure.

a.

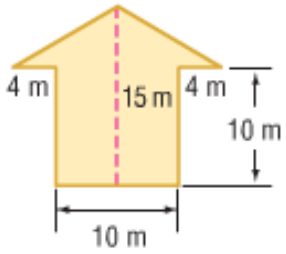


6.

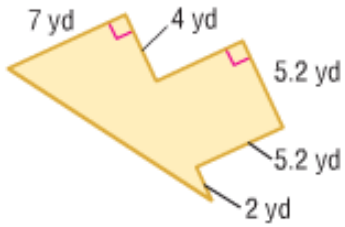


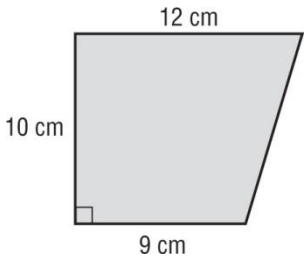

3 in.
3 in.
5 in.
6 in.

3.


4 m
15 m
4 m
10 m
10 m

11.


7 yd
4 yd
5.2 yd
5.2 yd
2 yd


12 cm
10 cm
9 cm