# Composite Figures

- A **composite** figure is formed from two or more shapes.

To find the area of a composite figure:

- Identify and number each shape in the figure.

- Find the area of each shape & then *add* them up.

- To find the area of a shaded region, you need to *subtract* the unshaded region.

Example #1: Find the area of the composite figure.

The composite figure contains 2 triangles and 1 square. We need to find the area of each region.
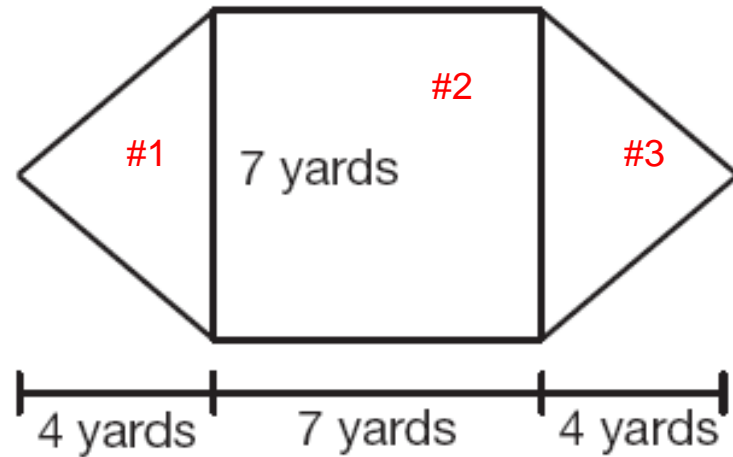
Area of #1 Triangle:
A = ½ bh
A = ½ (7)(4)
A = ½ (28)
A = 14 yd²

Area of #2 Square:
A = bh
A= 7(7)
A= 49 yd²

Total Area of Figure:

Add up areas of 2 triangles and square.

A = 2(14) + 49
A= 28 + 49 = **77 yd²**

Example #2: Find the area of the figure.

The figure contains:
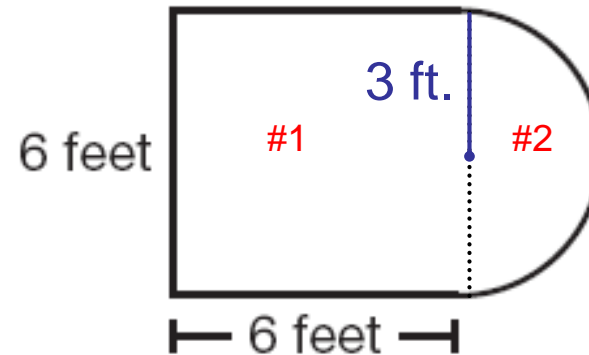1 square and a Semicircle

Area of #1 Square:
A = bh
A = 6(6)
A = 36 ft²

Area of #2 Semicircle

$A = \frac{1}{2}\pi r^2$

$A = \frac{1}{2}\pi(3)^2$

$A = \frac{1}{2}(9)\pi$

A = 4.5π ft²

Total Area of Figure:

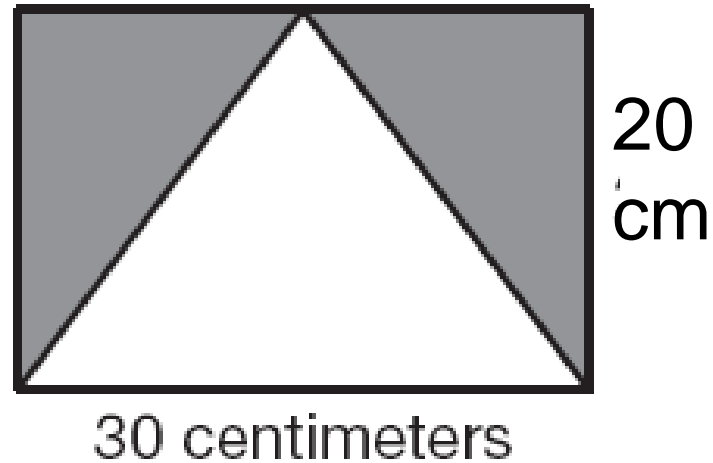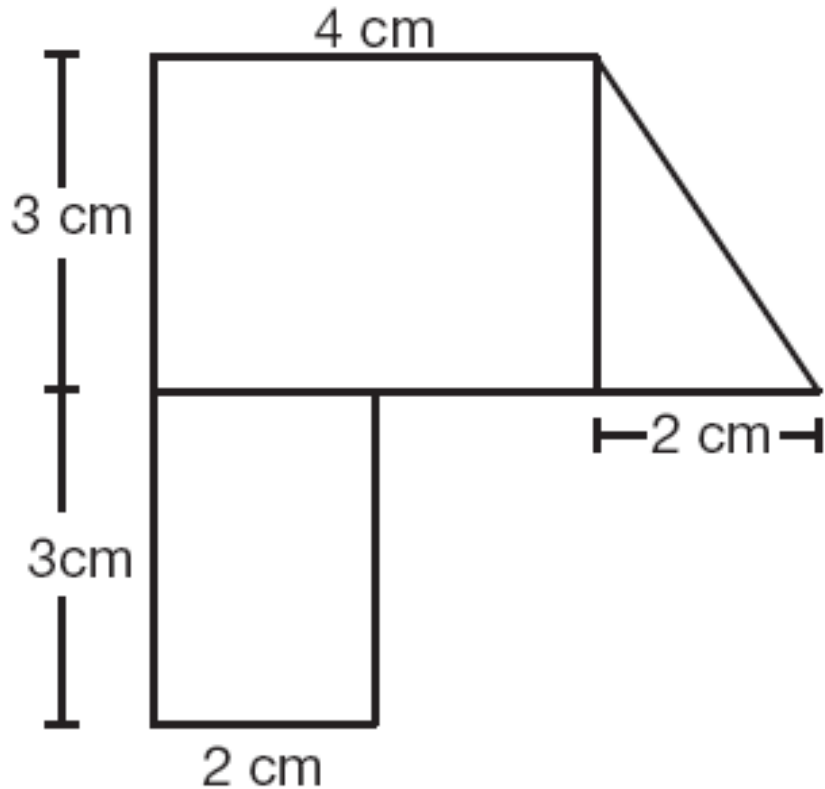Add areas of the square and semicircle:

A = **36 + 4.5π ft²**

QUIZ TIME!

Show ALL of your work!

1. Find the area of the composite figure below.

4 cm

3 cm

3cm

2 cm

⊢2 cm⊣

20 cm

30 centimeters

2. Find the area of the shaded region above.