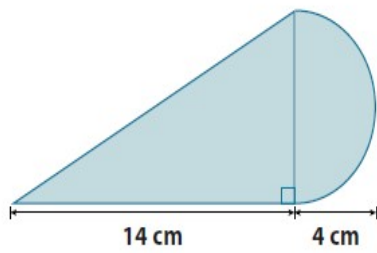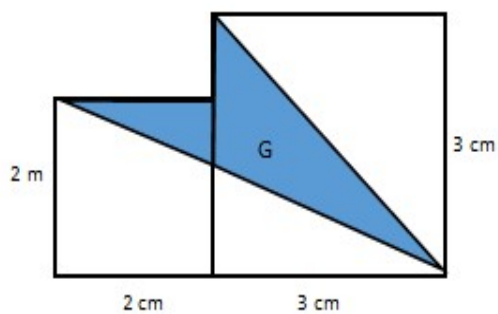# Composite Area Problems Worksheets

1. Find the area of the shaded region. Use 3.14 for π.

2. Find the area of the shaded region. The figure is not drawn to scale.

Go to onlinemathlearning.com for more free math resources

Composite Area Problems Worksheets

1. Find the area of the shaded region. Use 3.14 for π.
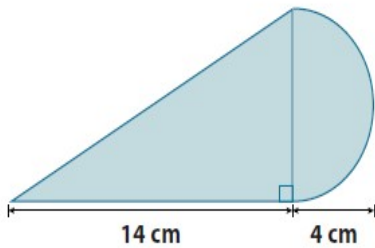

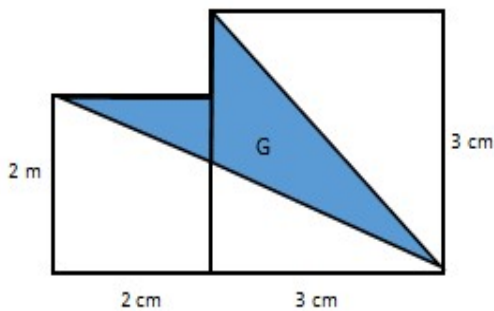*Area of the triangle + area of the semicircle = area of the shaded region*

$$\left(\frac{1}{2}\, b \times h\right) + \left(\frac{1}{2}\right)(\pi r^2)$$

$$\left(\frac{1}{2} \cdot 14\ cm \cdot 8\ cm\right) + \left(\frac{1}{2}\right)(3.14 \cdot (4\ cm)^2)$$

$$56\ cm^2 + 25.12\ cm^2$$

$$81.12\ cm^2$$

The area is approximately $81.12\ cm^2$.

2. Find the area of the shaded region. The figure is not drawn to scale.

Area of squares − (area of the bottom right triangle + area of the top right triangle)

$$((2\ cm \times 2\ cm) + (3\ cm \times 3\ cm))$$

$$-\left(\left(\frac{1}{2} \times 5\ cm \times 2\ cm\right) + \left(\frac{1}{2} \times 3\ cm \times 3\ cm\right)\right)$$

$$13\ cm^2 - 9.5\ cm^2$$

$$3.5\ cm^2$$

The area is $3.5\ cm^2$.

There are multiple solution paths for this problem. Explore them with students.

Go to onlinemathlearning.com for more free math resources