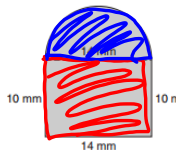


Irregular Figures

Step to finding area of irregular figures

1. Determine what shapes create the figure
2. Find the area of each shape
3. add the areas together

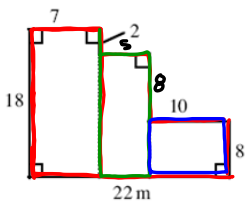
Example



$rectangle = lw = 14 \times 10 = 140 mm^2$
 $Semi-circle = \frac{\pi r^2}{2} = \frac{\pi (7)^2}{2} = 76.93$

$$\begin{array}{r} 140 \\ + 76.93 \\ \hline 216.93 mm^2 \end{array}$$

Find the area and perimeter of the figure

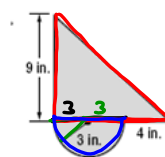


$18 + 22 + 8 + 10 + 7 + 2 + 5 + 8 = 80m$
 $red = 18 \times 7 = 126m^2$
 $green = 16 \times 5 = 80m^2$
 $blue = 10 \times 8 = 80m^2$

}

$286m^2$

Find the area of the figure



What two shapes make up this figure?

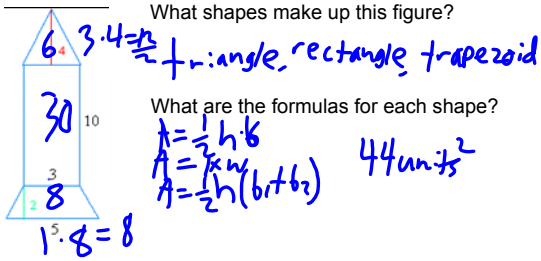
triangle, semi-circle

What are the formulas for each of these shapes?

$Area = \frac{bh}{2} + \frac{\pi r^2}{2}$

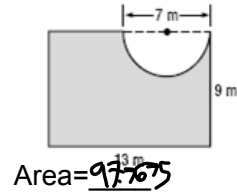
$\frac{10 \cdot 9}{2} + \frac{\pi (3)^2}{2} = \frac{90}{2} + \frac{7\pi}{2} = 45 + 14.13 = 59.13 in^2$

Find the area of the figure below

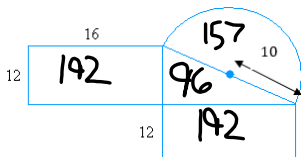


Area= _____

Find the area of the shaded region

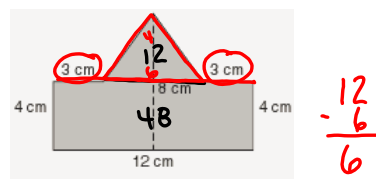


Find the area of the figure below



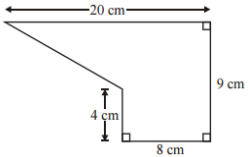
Area= 192 units²

Find the area of the figure below

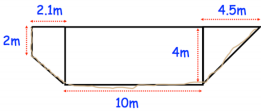


Area= 64 cm² 60 cm²

Try on your own..



Area= _____



Area= _____