Perimeter, Circumference, and Area

Today I Can

1. Find the perimeter and circumference of basic shapes.
2. Find the area of basic and composite shapes.

Perimeter

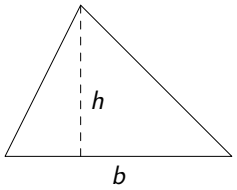
The **perimeter** of a polygon is the sum of the lengths of its sides.

Area

The **area** of a shape is the number of square units it uses (i.e. how much space it takes up on paper).

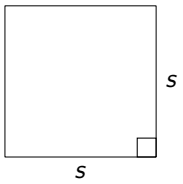
Triangle

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



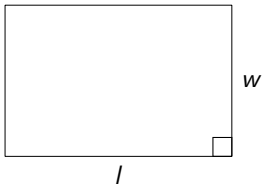
Square

Area $= s^2$



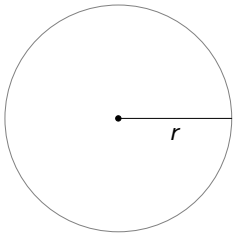
Rectangle

Area $= lw$



Circle

Area $= \pi r^2$; Circumferene $= 2\pi r$

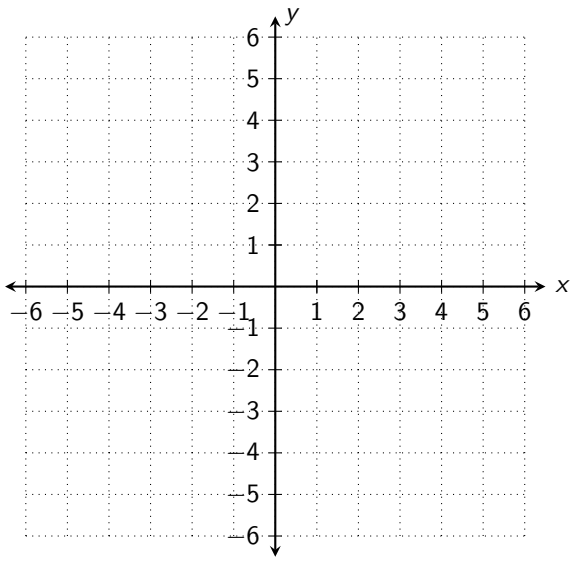


Example 1. You want to frame a picture that is 5 in by 7 in with a 1-in wide frame.

(a) What is the area of the picture?

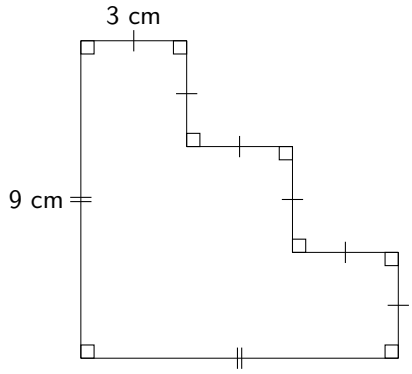
(b) What is the area of the frame?

Example 2. What is the perimeter and area of $\triangle EFG$ if $E(3,6)$, $F(3,-2)$, $G(-3,-2)$?



Example 3. What is the perimeter and area of each of the following?

(a)



(b)