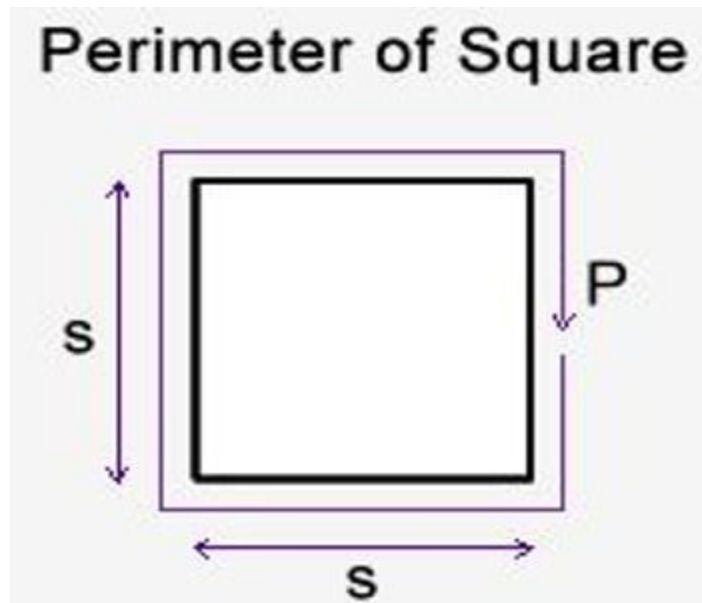


We are going to look at shapes in 2 dimensions.

We are going to lead off with **Square**:

First thing we are going to look at is Perimeter



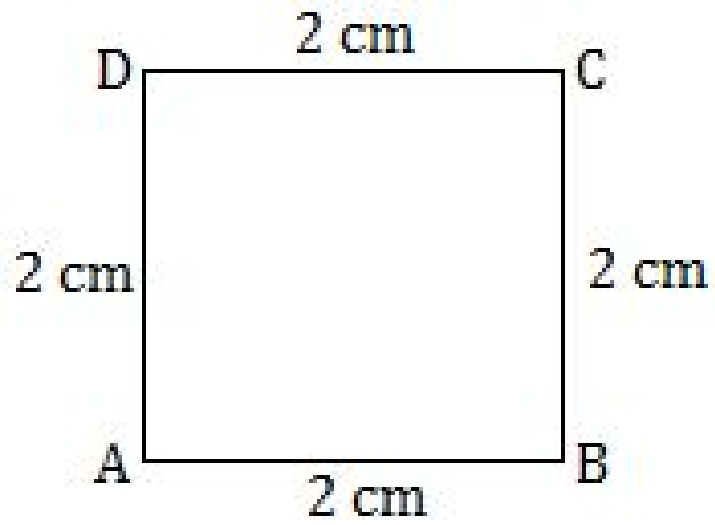
Think of the perimeter as a fence.

How many “s” do you think we will need?

$$P = 4 * s$$

$$P = 4s$$

$$P = s + s + s + s$$



So what about Area? $2\text{cm} * 2\text{cm} = 4\text{cm}^2$

Area of a square

Since it is a square all sides are equal in length.

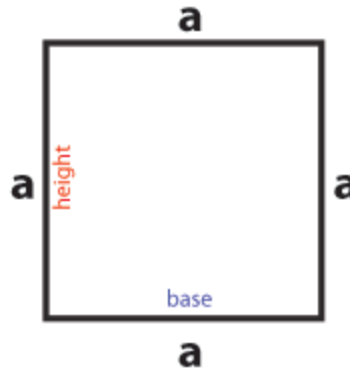
$$A = \text{base} \times \text{height}$$

$$A = a \times a$$

Example:

If $a = 3$ units then

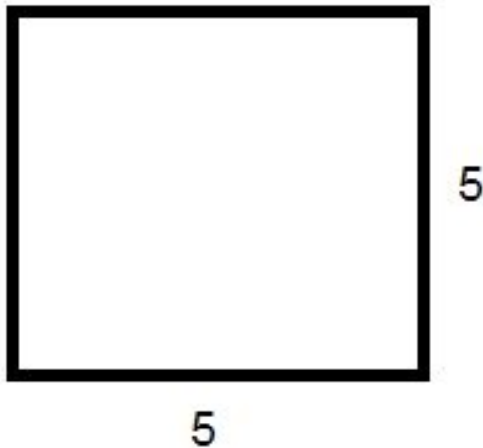
Area (A) = $3 \times 3 = 9$ square units



Make sure you notice when doing the area the Units are squared!

Solve for the Area:

(in)

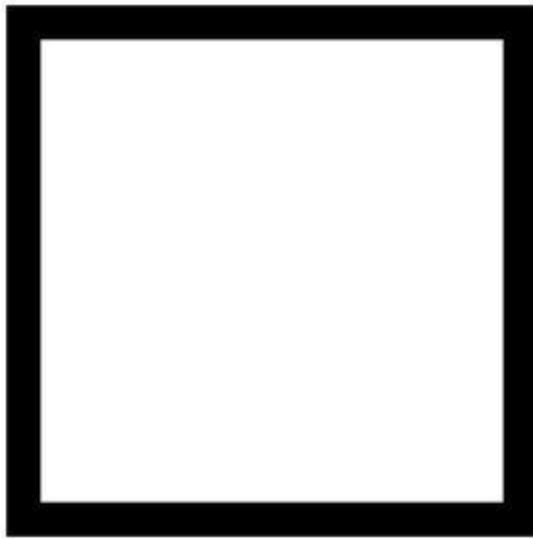


Don't forget the units!

$$5 \times 5 = 25 \text{ in}^2$$

25 in squared

What if we have the AREA we want and we need to find the sides?



The Area is 49 in^2 , what is the side length?

$$7\text{in} * 7\text{in} = 49\text{in}^2$$

$$\text{Side} = 7\text{in}$$

This is where we introduce the Square root!

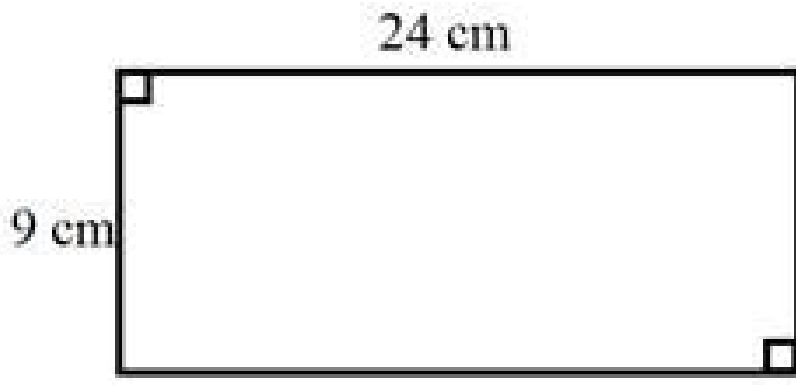
$\sqrt{\quad}$ is the new symbol.

Let's move on to Rectangles!

The rules are the same!

Let's find a Perimeter

$$9\text{cm} + 24\text{cm} + 9\text{cm} + 24\text{cm} = 66\text{cm}$$



What is the Area of the rectangle above?

$$9\text{cm} * 24\text{cm} = 216\text{cm}^2$$