

# Area

The **area** of a two-dimensional (flat) shape is the **space** that it occupies.

- There are formulas for the areas of most basic shapes

## Examples

1. What is the area of this rectangle?



$$A = L \times W$$

$$A = ( \quad ) \times ( \quad )$$

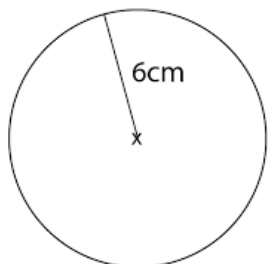
$$A = \quad \text{cm}^2$$

Note the units!

"cm" is a distance, for *lengths*

the <sup>2</sup> is for *area* (*one length times another*)

2. What is the area of this circle?



$$A = \pi r^2$$

$$A = 3.14 \times ( \quad )^2$$

$$A = 3.14 \times ( \quad )$$

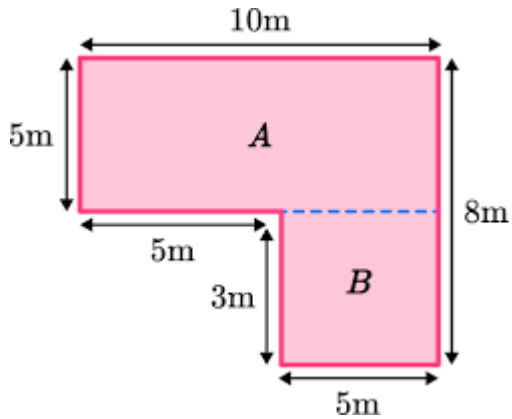
$$A = \quad \text{cm}^2$$

## Practice

3. Calculate the area of this circle.

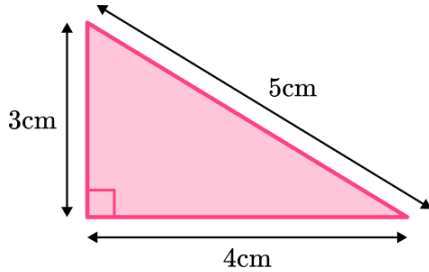


4. You can calculate the area of this L-shape by dividing it into two rectangles (shown)  
Calculate the area of rectangle A, *and* Rectangle B, then add them together to get the total area.



The area of a triangle is  $A = \frac{1}{2}bh$ , where:

- $b$  is the length of the base (any side of the triangle)
  - $h$  is the height of the triangle (must be 90 degrees to base)
5. a) Label the *base* and *height* of this triangle.  
b) Then, use that information to calculate its area.



6. Find the **area** of this triangle.
- You will need to find its **height** first !

