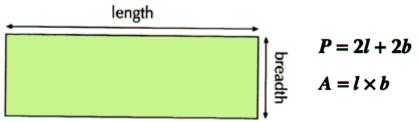
Area/Perimeter [2D SHAPES]

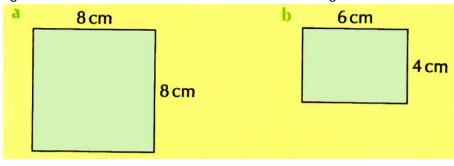
Rectangle/Square



The **perimeter** of the rectangle is the total distance around the shape. It can be calculated by adding the length of all the sides. Perimeter is measured in units of length. The unit of length used in this section is the centimetre (cm).

The **area** of the rectangle is the amount of space inside the shape. It can be calculated by counting any smaller units inside the rectangle. Area is measured in square units. The unit of area used in this section is the square centimetre (cm²).

Eg. Find the *Perimeter* and *Area* of each of the following:



$$Area = 8 \times 8$$
$$A = 64 cm^2$$

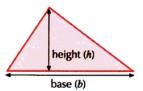
Perimeter =
$$6 + 4 + 6 + 4$$

P = 20 cm

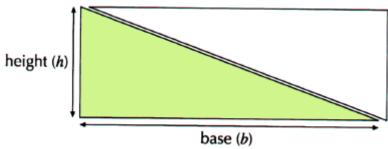
$$Area = 6 \times 4$$
$$A = 24 cm^2$$

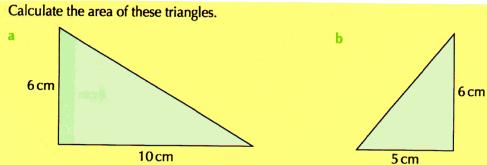
Triangle

To find the area of a triangle, we need to know the length of its base and its height. The height of the triangle is sometimes known as its **perpendicular height**. The diagram shows that the area of the triangle is half of the area of a rectangle.



area of a triangle is $\frac{1}{2} \times \text{base} \times \text{height}$.

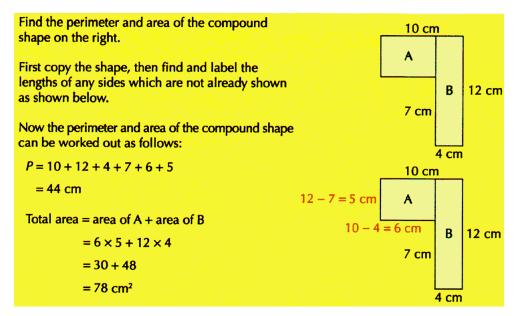




$$Area = \frac{1}{2} \times 10 \times 6$$
$$A = 30 \ cm^2$$

$$Area = \frac{1}{2} \times 5 \times 6$$
$$A = 15 cm^2$$

Perimeter and Area of Compound/Composite Shapes



Volume [3D OBJECTS]

Volume is the amount of space inside a three-dimensional (3D) object.



$V = l \times b \times h$

