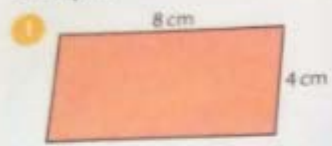


# AREA AND PERIMETER 2

**TARGET** To calculate the area and perimeter of squares, rectangles and related irregular shapes.

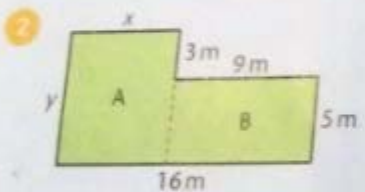
To understand the difference between area and perimeter think of a field. The perimeter is the length of the fence around the field. The area is the field itself.

**Examples**



Area = length  $\times$  width  
 =  $(8 \times 4) \text{ cm}^2$   
 =  $32 \text{ cm}^2$

Perimeter =  $2 \times (\text{length} + \text{width})$   
 =  $2 \times (8 + 4) \text{ cm}$   
 =  $2 \times 12 \text{ cm}$   
 =  $24 \text{ cm}$



$x = 7 \text{ m } (16 \text{ m} - 9 \text{ m})$   
 $y = 8 \text{ m } (5 \text{ m} + 3 \text{ m})$

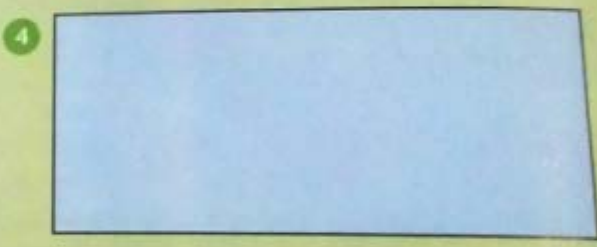
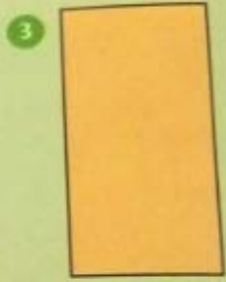
Area of A =  $(8 \times 7) \text{ m}^2$   
 =  $56 \text{ m}^2$

Area of B =  $(9 \times 5) \text{ m}^2$   
 =  $45 \text{ m}^2$

Total area =  $(56 + 45) \text{ m}^2$   
 =  $101 \text{ m}^2$

Perimeter =  $(8 + 7 + 3 + 9 + 5 + 16) \text{ m}$   
 =  $48 \text{ m}$

**A** Measure each rectangle and work out:  
 a) the perimeter      b) the area.



For each of the following shapes work out:

a) the perimeter      b) the area

5 square sides 3 cm

7 square sides 5 cm

6 rectangle sides 2 cm 8 cm

8 rectangle sides 4 cm 7 cm

Use 1 cm squared paper.

9 Find as many rectangles as you can with an area of  $18 \text{ cm}^2$ . Work out the perimeters.

10 Find as many rectangles as you can with a perimeter of 20 cm. Work out the areas.

11 Draw a square with a perimeter of 24 cm. Work out the area.