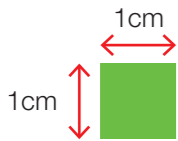


Learn

Area is measured in **square units**.

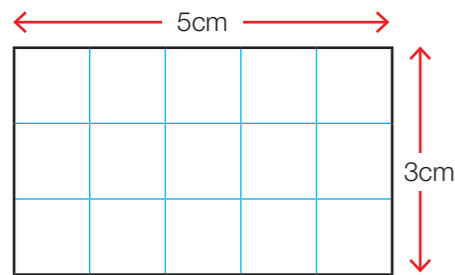
This square is 1cm long and 1cm wide. Its area is 1cm².



We can count squares to calculate simple areas.

The formula for calculating the **Area** of rectangles and squares is the **length** times the **width**. $A = l \times w$

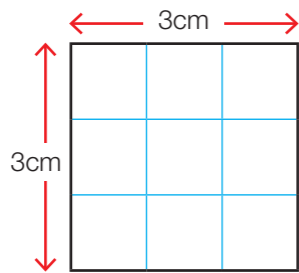
The area of this rectangle is $A = 5 \times 3 = 15\text{cm}^2$.



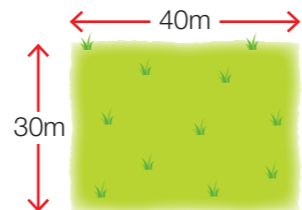
Don't forget to square the units!



For squares, the length and the width are the same. The area of this square is $A = 3 \times 3 = 9\text{cm}^2$.



This field is 40m long and 30m wide. The area of the field is $A = 40 \times 30 = 1200\text{m}^2$.

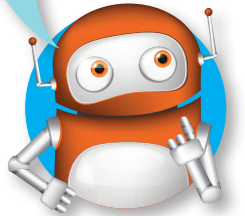


Talk maths

Look at these areas, and then tell a partner what the lengths and widths could be. Can they draw them?

Shape	Rectangle	Rectangle	Rectangle	Square	Square	Square
Area	6cm ²	12cm ²	30cm ²	9cm ²	16cm ²	25cm ²

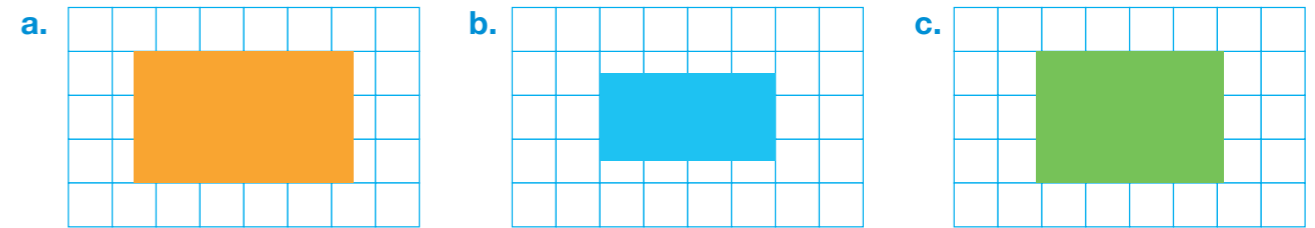
There should be more than one answer for each rectangle. How many can you find?



Activities



1. Estimate the areas of these shapes assuming each square is 1cm².



2. Calculate the areas of these shapes.

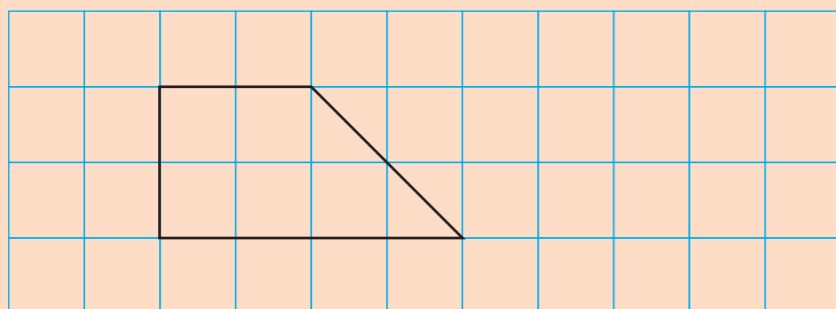
- A rectangle with length 12cm and width 9cm.
- A square with side length 7m.
- A rectangle with length 25m and width 12m.

3. Write which shape has the larger area.

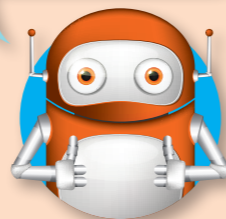
- A rectangle, length 5cm and width 1cm OR a square of side 2cm?
- A rectangle, length 8cm and width 3cm OR a square of side 5cm?
- A rectangle, length 7m and width 5m OR a square of side 6m?
- A rectangle, length 17km and width 9km OR a square of side 12km?

✓ Tips

- If an irregular shape is drawn on 1cm² paper we can still estimate its area. Just count the squares!



Two half squares make one whole cm².



Problems



Brain-teaser

Annie's garden is 3m long and 5m wide. It was all grass but Annie has cut a square flowerbed, with side length of 1m, in the centre. What area of grass is left?

Brain-buster

A farmer plants nine potatoes in every square metre of earth. How many potatoes will she grow in a field 120m long and 75m wide?