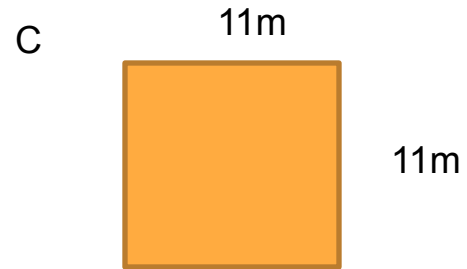
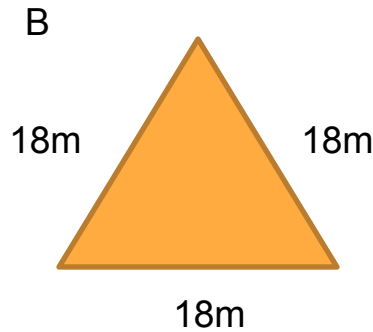


Year 4 Summer 2 Week 8  
Lesson 5

Can I find the area of a  
rectilinear shape?

# Fast Five

What are the perimeters of these shapes? All measurements in m.



## Fast Five Answers

$$A = 26\text{m}$$

$$B = 54\text{m}$$

$$C = 44\text{m}$$

$$D = 60\text{m}$$

# Can I find the area of a rectilinear shape?

Area measures the surface inside a shape.

To find the area we can often count the number of squares it covers.



Each small square has sides 1cm long.

This shape covers 4 squares.

The area of this shape is  $4\text{cm}^2$ .

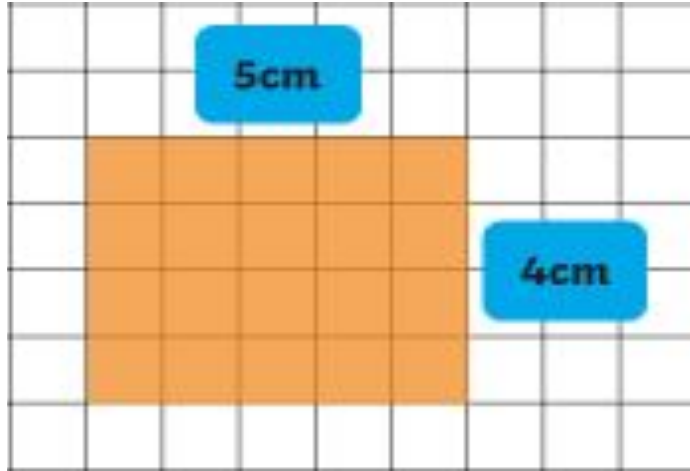
We must always include the units<sup>2</sup> at the end to show we are measuring area.

What is the area of this shape?

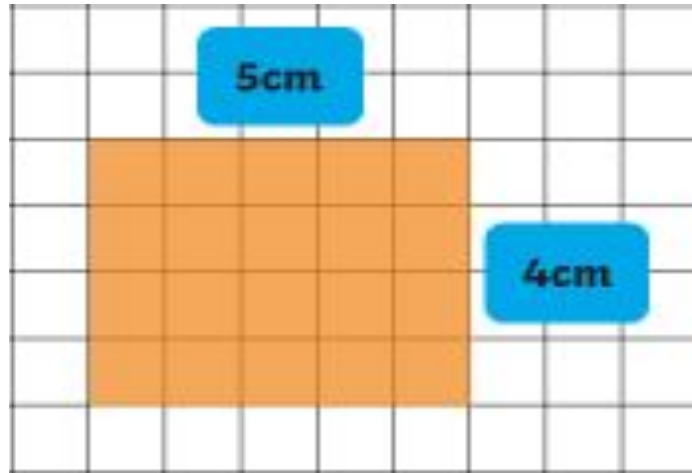


There are 8 squares covered so it is  $8\text{cm}^2$

What is the area of this shape?



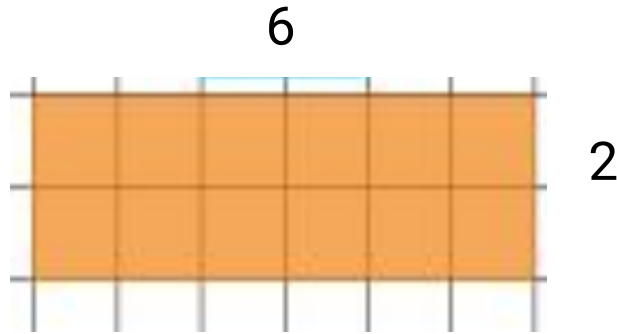
What is the area of this shape?



The shape covers 20 squares so it is  $20\text{cm}^2$

# Alternative method

Rather than counting the individual squares (if the shape is a square or a rectangle) we can simply multiply the length by the width.

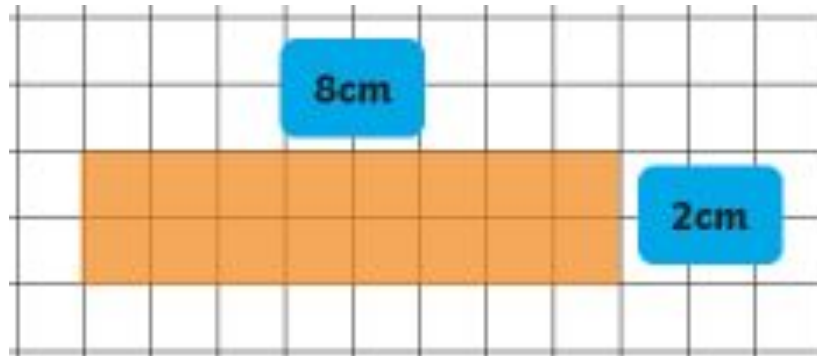


Each square is  $1\text{cm}^2$

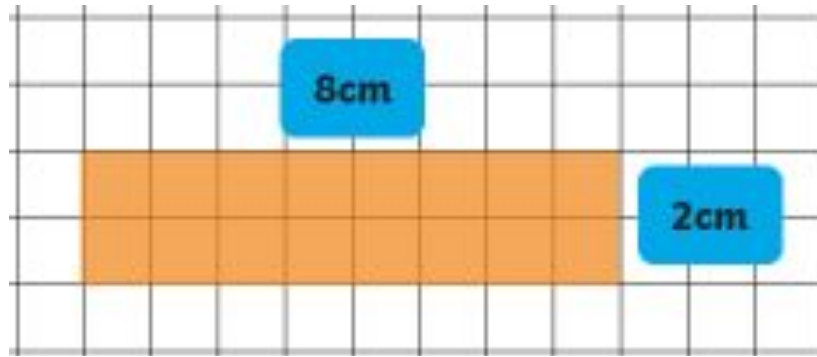
$$6\text{cm} \times 2\text{cm} = 12\text{cm}^2$$



What is the area of this shape?

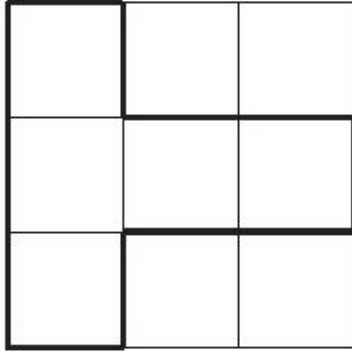


What is the area of this shape?

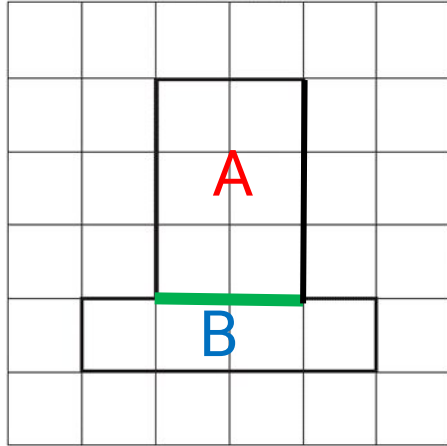


$$8\text{cm} \times 2\text{cm} = 16\text{cm}^2$$

# Composite shapes



Each square is  $1\text{cm}^2$ . This shape covers 5 squares so is  $5\text{cm}^2$



This shape can be divided into 2 separate rectangles  
**A** and **B**

$$\text{Area of shape } \mathbf{A} = 2\text{cm} \times 3\text{cm} = \mathbf{6\text{cm}^2}$$

$$\text{Area of shape } \mathbf{B} = 4\text{cm} \times 1\text{cm} = \mathbf{4\text{cm}^2}$$

Total area = area **A** + area **B**

$$\mathbf{6\text{cm}^2} + \mathbf{4\text{cm}^2} = \mathbf{10\text{cm}^2}$$