



# Maths

## Measurement



# Aim

- I can calculate the perimeter of a shape in centimetres.

# Success Criteria

- I can measure the length of sides of rectangles and squares.
- I can add the measurements of sides together to calculate perimeter.

# Centimetre Sort



Work with a partner.

Use a ruler to find objects to fit in each part of the Carroll diagram.

	Longer than 10cm	Not longer than 10cm
Higher than 15cm		
Not higher than 15cm		

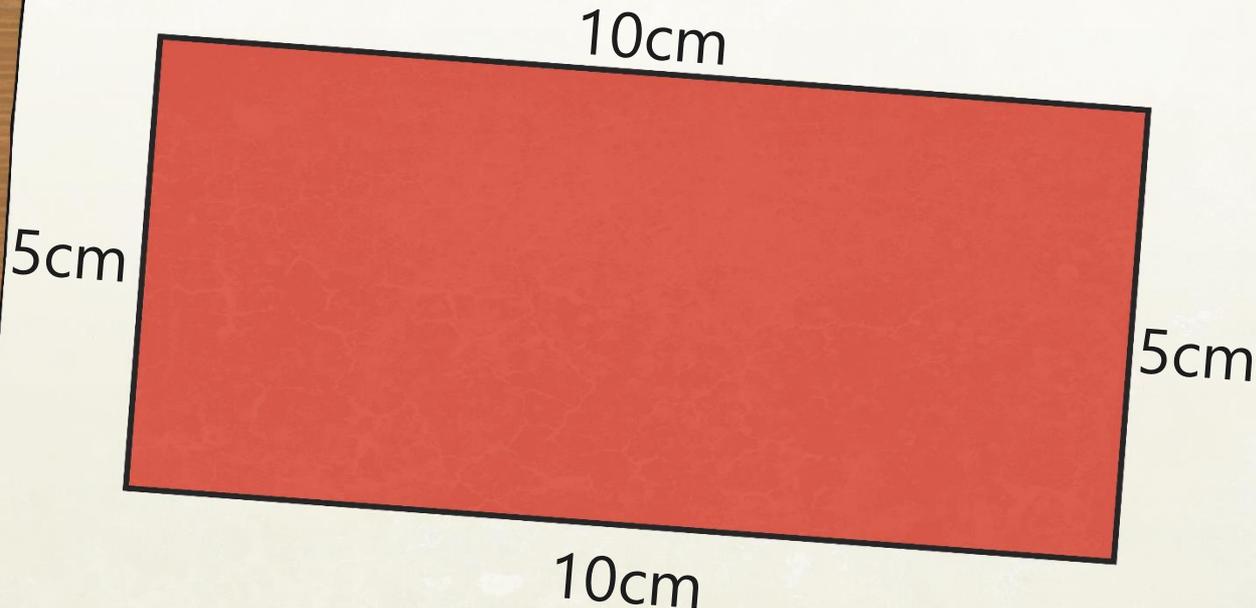
The illustration shows a girl with brown hair and blue overalls holding up a model of the solar system with planets labeled Venus, Earth, Mars, and Saturn. On the desk in front of her are a purple stapler, a bottle of 'twinkl' glue, a purple pencil case, and a ruler. The background includes a window and a door.

# Calculating Perimeter



Perimeter is the total distance around the edge of a figure or shape.

Here are the measurements of a rectangle:

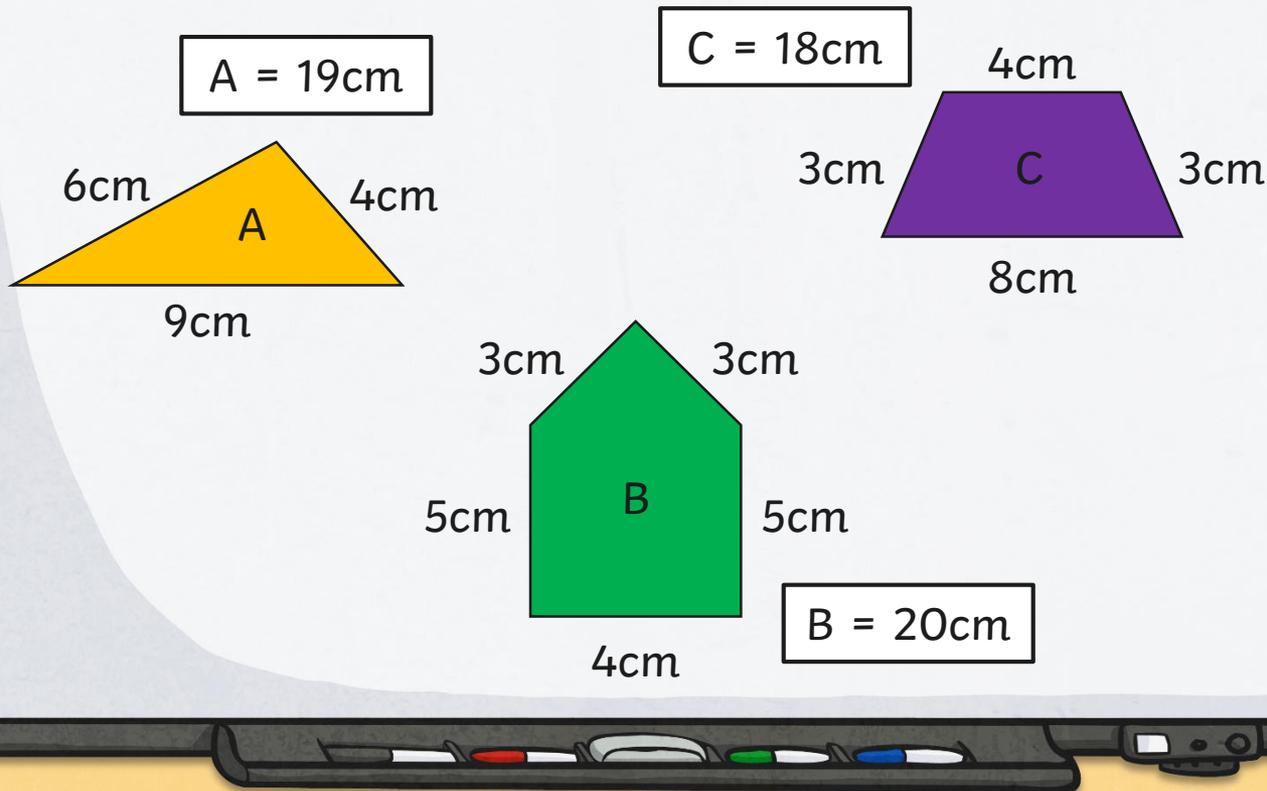


$$10\text{cm} + 5\text{cm} + 10\text{cm} + 5\text{cm} = 30\text{cm}$$

# Calculating Perimeter



Calculate the perimeter of these shapes:



# Calculating Perimeter

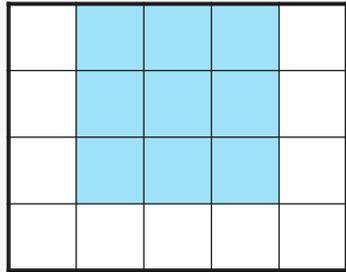


Calculate the perimeter of these shapes:

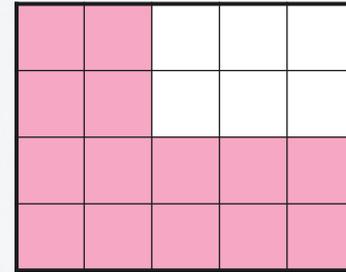
1cm



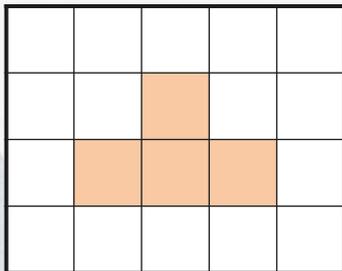
1cm



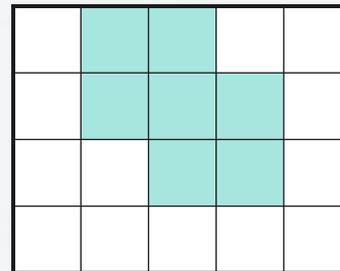
perimeter = 12cm



perimeter = 18cm



perimeter = 10cm

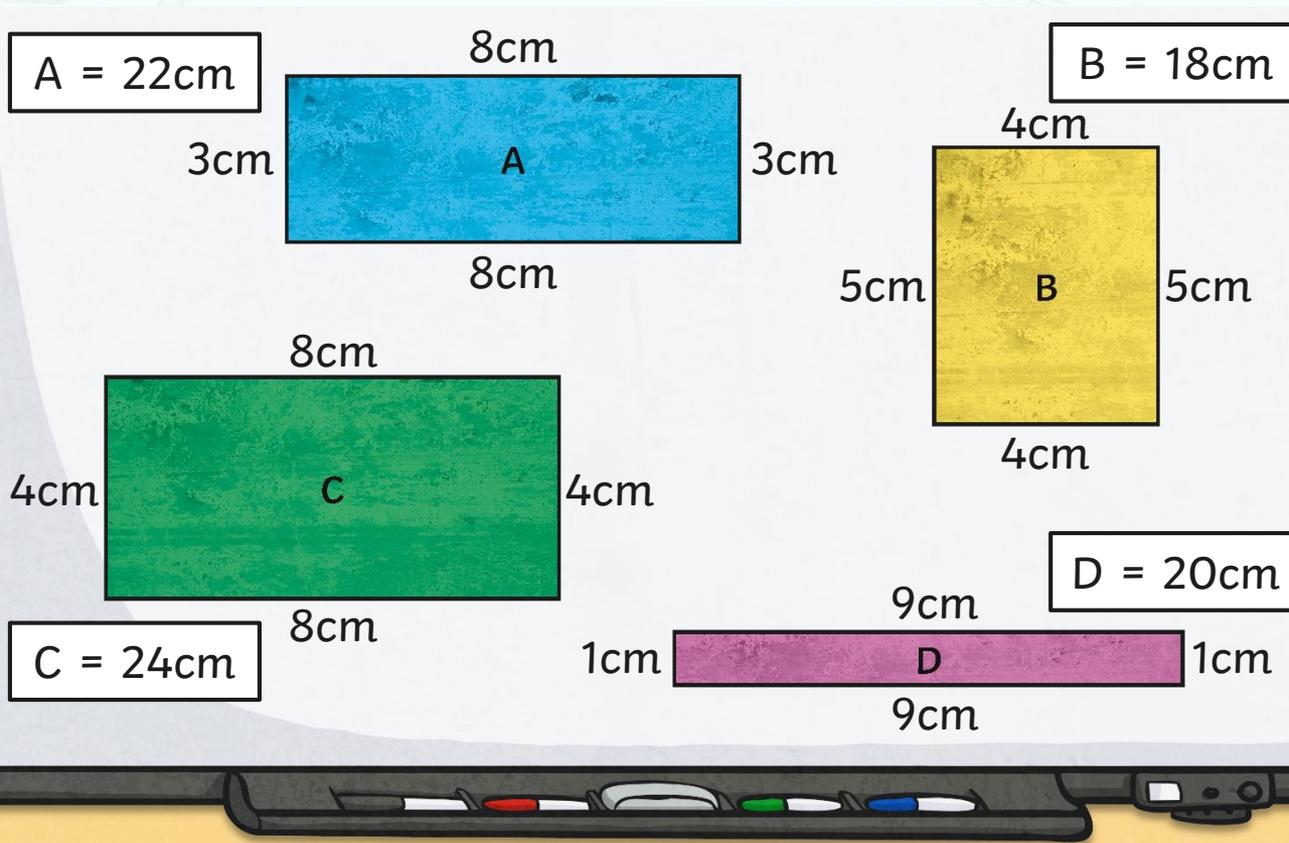


perimeter = 12cm

# Calculating Perimeter



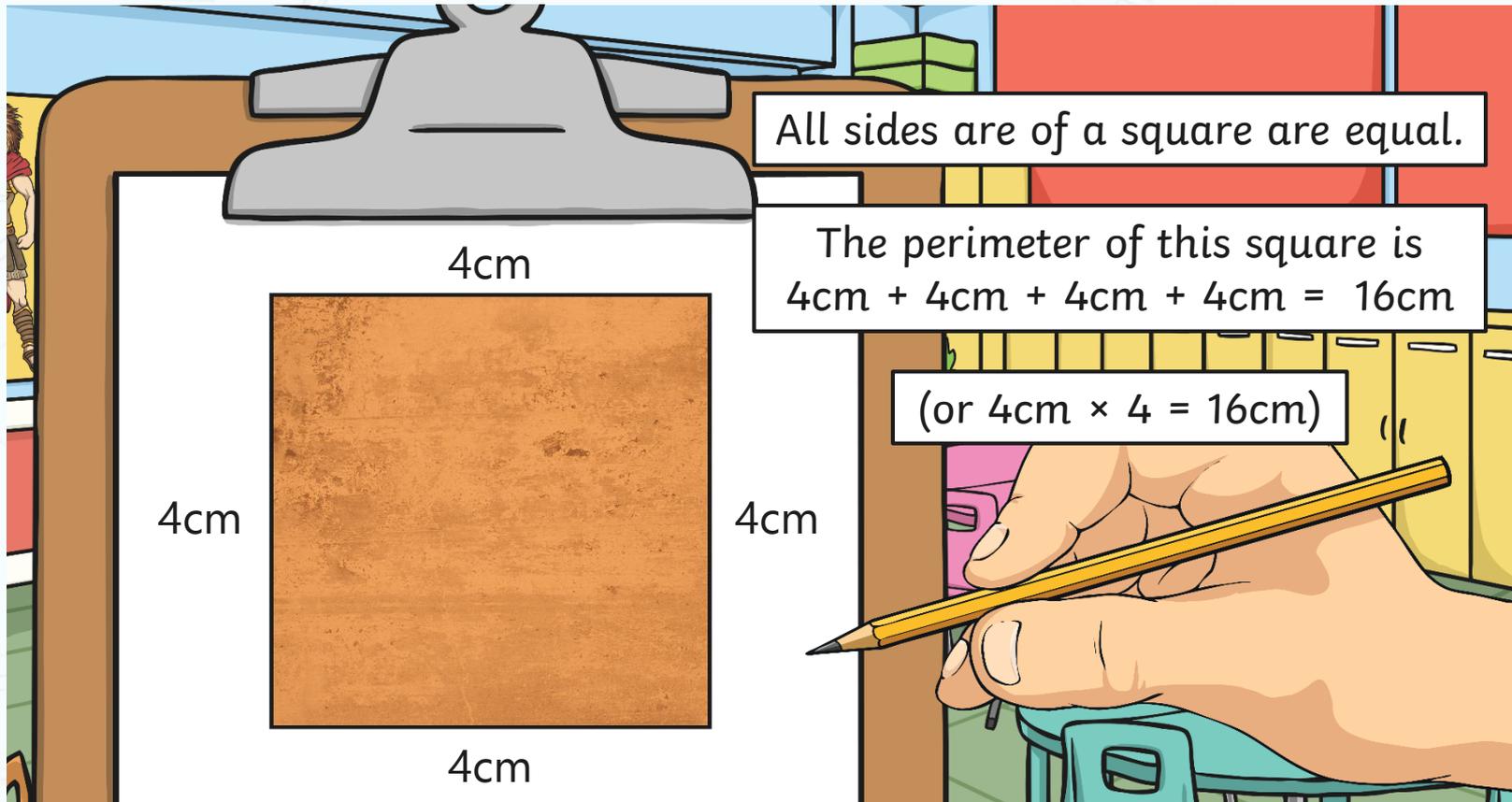
Calculate the perimeter of these rectangles:



# Squares and Rectangles



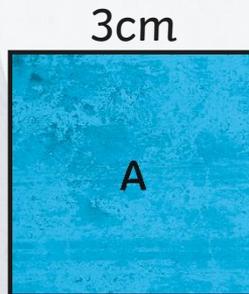
This shape is a square.  
We know that one of its sides is 4cm.



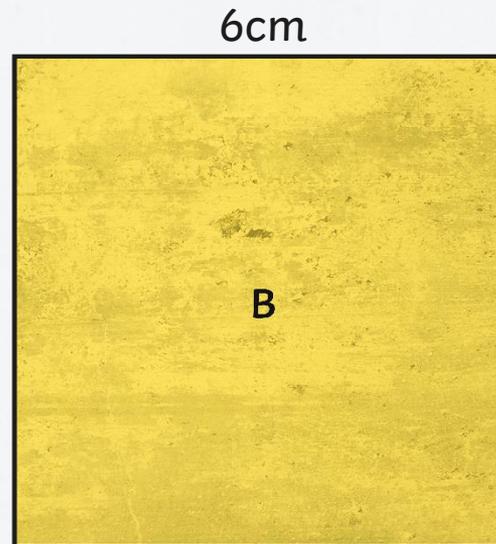
# Squares and Rectangles



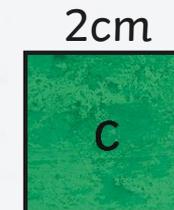
Calculate the perimeter of these squares:



$$A = 12\text{cm}$$



$$B = 24\text{cm}$$

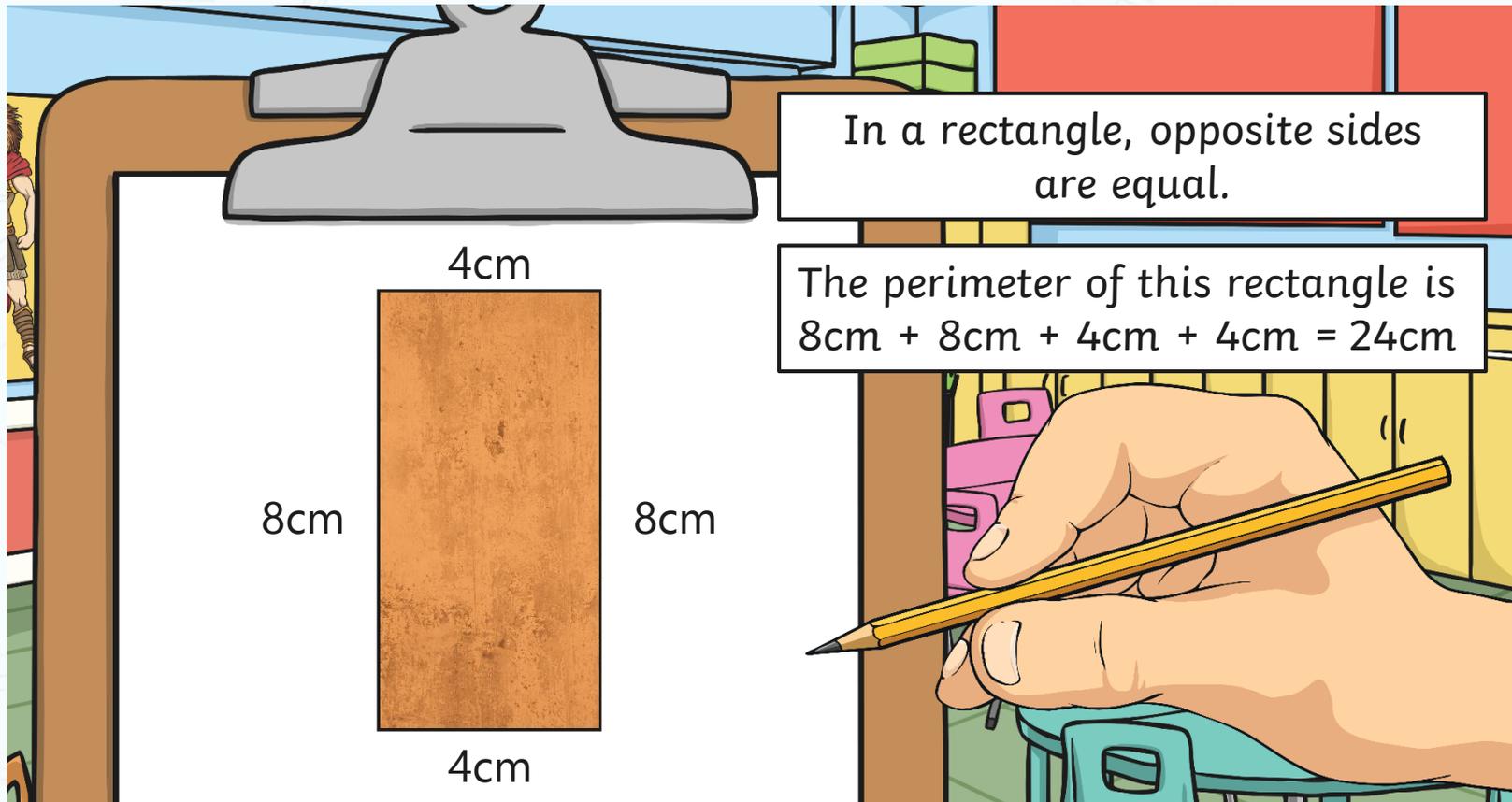


$$C = 8\text{cm}$$

# Squares and Rectangles



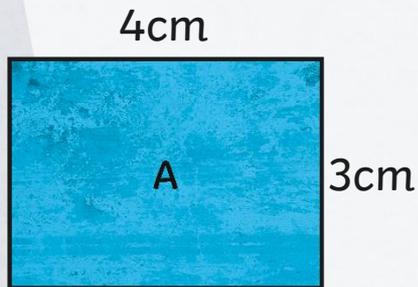
This shape is a rectangle.  
We know that one of its sides is 4cm and the other is 8cm.



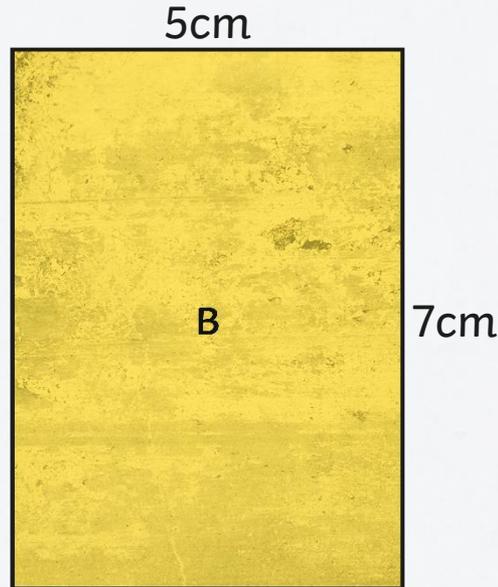
# Squares and Rectangles



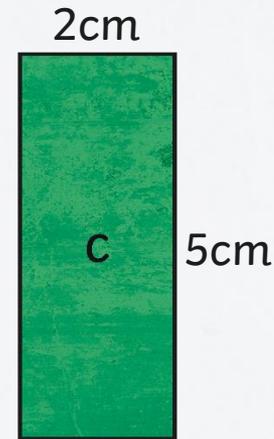
Calculate the perimeter of these rectangles:



$$A = 14\text{cm}$$

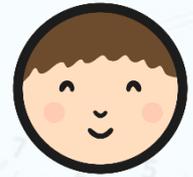


$$B = 24\text{cm}$$



$$C = 14\text{cm}$$

# Measuring Perimeter



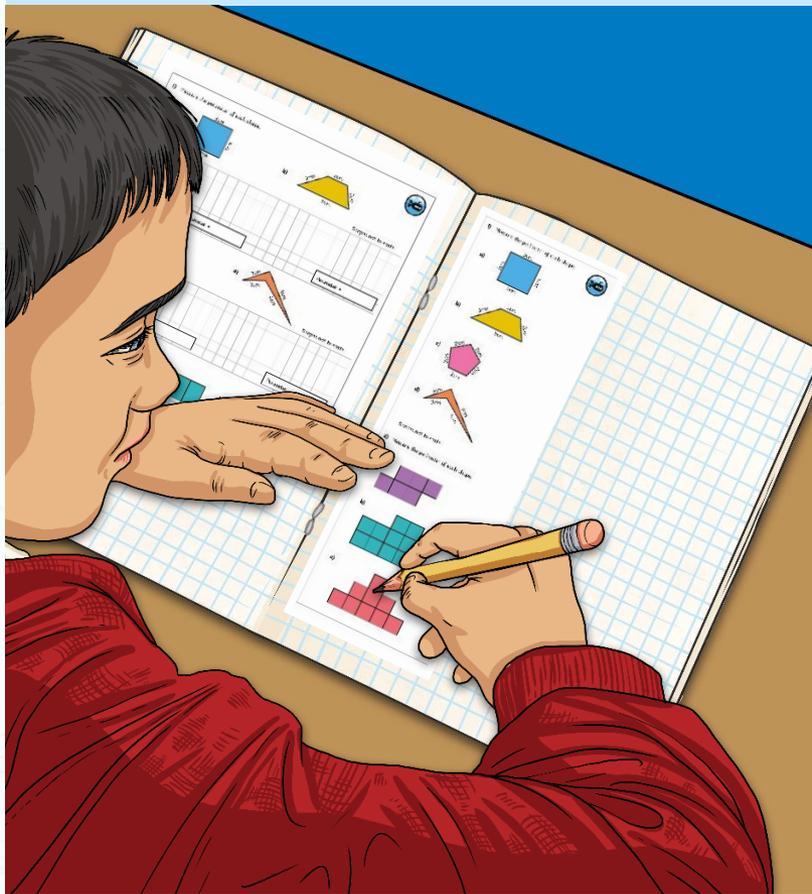
Use your measuring mastery to complete these activity sheets:

The collage displays six activity sheets for measuring perimeter, each with a Twinkl logo and a ruler illustration. The sheets are:

- Sheet 1:** Contains a 3-star badge and the instruction "2) Calculate the perimeter of the shape." It shows a rectangle with a perimeter of 60 cm and a horizontal bar with a perimeter of 11 cm. The task is to calculate the perimeter.
- Sheet 2:** Contains a 3-star badge and the instruction "2) Calculate the perimeter of the shape." It shows a rectangle with a perimeter of 11 cm and a vertical bar with a perimeter of 11 cm. The task is to calculate the perimeter.
- Sheet 3:** Contains a 3-star badge and the instruction "2) Calculate the perimeter of the shape." It shows a rectangle with a perimeter of 11 cm and a horizontal bar with a perimeter of 11 cm. The task is to calculate the perimeter.
- Sheet 4:** Contains a 3-star badge and the instruction "2) Calculate the perimeter of the shape." It shows a rectangle with a perimeter of 11 cm and a vertical bar with a perimeter of 11 cm. The task is to calculate the perimeter.
- Sheet 5:** Contains a 1-star badge and the instruction "2) Work out the length of the missing sides." It shows a rectangle with a perimeter of 11 cm and a vertical bar with a perimeter of 11 cm. The task is to work out the length of the missing sides.
- Sheet 6:** Contains a 1-star badge and the instruction "1) Measure and label the sides and calculate the perimeter of these shapes." It shows four shapes: a rectangle with a perimeter of 11 cm, a vertical bar with a perimeter of 11 cm, a square with a perimeter of 11 cm, and another square with a perimeter of 11 cm. The task is to measure and label the sides and calculate the perimeter.

## Diving into Mastery

Dive in by completing your own activity!



1) Measure the perimeter of each shape.

a)

b)

c)

d)

Shapes not to scale.

2) Measure the perimeter of each shape.

a)

b)

c)

1) Measure the perimeter of each shape.

a)

b)

c)

d)

Shapes not to scale.

2) Measure the perimeter of each shape.

a)

b)

c)

Shapes not to scale.

Perimeter =

Shapes not to scale.

Perimeter =

Perimeter =

Perimeter =

# Spot the Odd One Out



All these shapes have the same perimeter, except for one.  
Find the odd one out:

All the other shapes have a perimeter of 14cm. This one has a perimeter of 16cm.

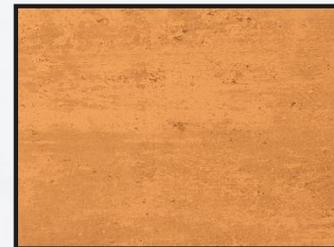
Answer:  
The odd one out is....

$4\frac{1}{2}$  cm

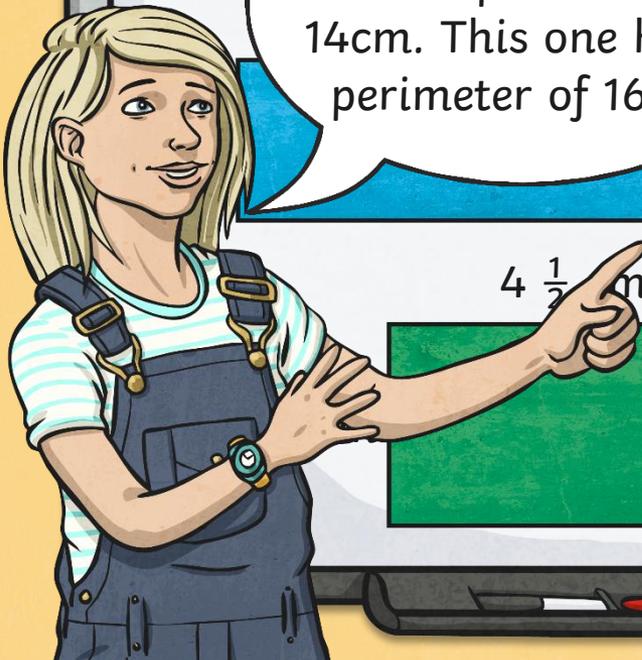
4cm



4cm



3cm



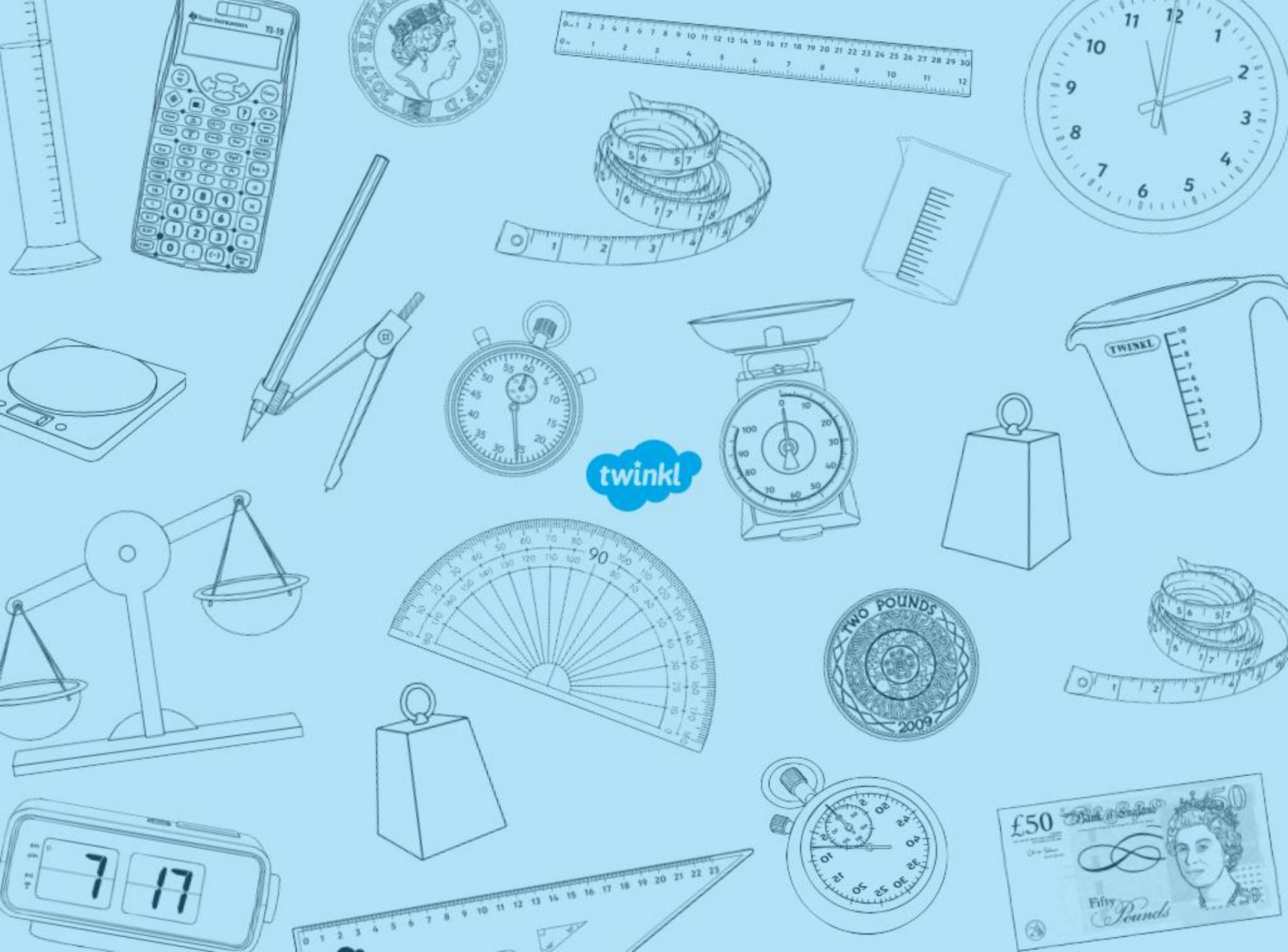
# Aim



- I can calculate the perimeter of a shape in centimetres.

# Success Criteria

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twinkl

TWO POUNDS  
2009

£50  
Bank of England  
Fifty Pounds