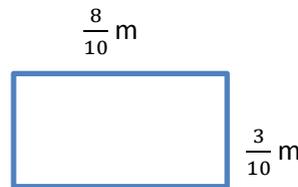
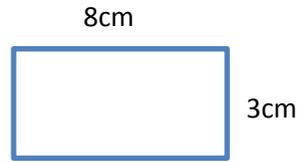


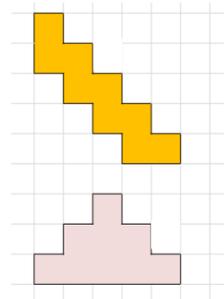
Measures

Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m

- Find the perimeter of the rectangle.



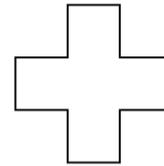
- Draw and find the perimeter of the shapes in centimetres.



- The perimeter of a square is 16cm. How long is each side?



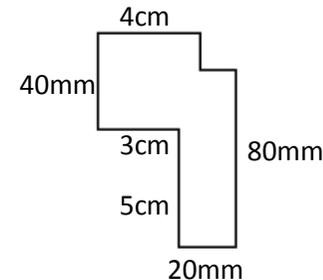
- Here is a rectilinear shape. All the sides are the same length and are a whole number of centimetres.



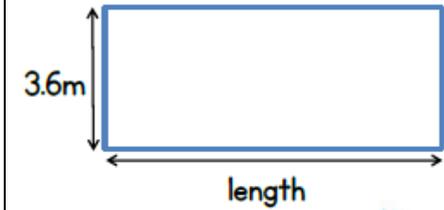
Which of these lengths could be the perimeter of the shape?

48cm 36cm 80cm 120cm 66cm

- Find the missing lengths on the shape and calculate the perimeter.



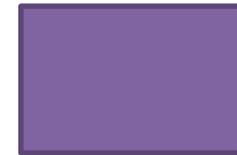
- The perimeter of the rectangle is 33m.



What is the length of the rectangle?

- The width of a rectangle is 2 metres less than the length.

The perimeter of the rectangle is between 20m and 30m.



What could the dimensions of the rectangle be?

Draw all the rectangles that fit these rules.

Use 1cm=1m.

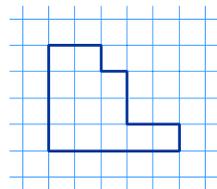
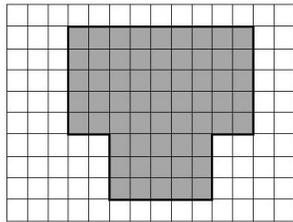
Area and Perimeter

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

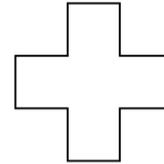
- Find the perimeter of the rectangle.



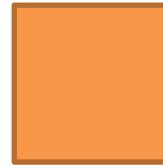
- Draw and find the perimeter of the shapes in centimetres.



- The perimeter of this shape is 48cm. All the sides are equal. How long is each side?



- Here is a square. Each of the sides is a whole number of metres.



Which of these lengths could be the perimeter of the shape?

24m, 34m, 44m, 54m, 64m, 74m

- Always, sometimes, never**

When all the sides of rectangle are whole odd numbers, the perimeter is even.

Prove it.

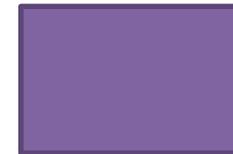
- The perimeter of the rectangle is 45m. The length of the rectangle is 15.5m



What is the width of the rectangle?

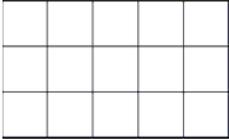
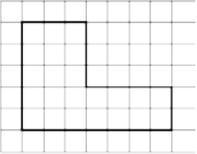
- The width of a rectangle is 4 metres less than the length.

The perimeter of the rectangle is between 30m and 40m.



What could the dimensions of the rectangle be?

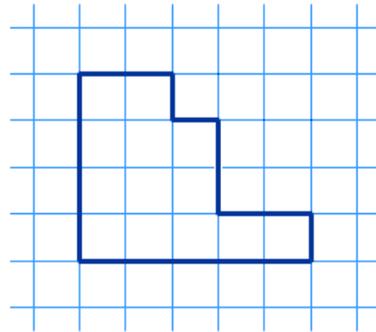
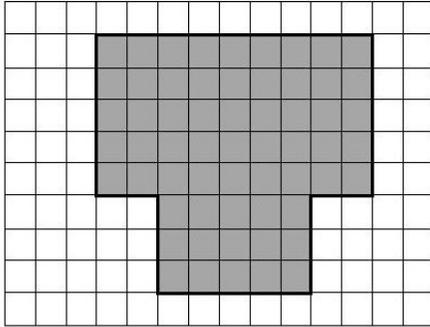
Draw all the rectangles that fit these rules. Use 1cm=1m.

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Measurement	Find the area of rectilinear shapes by counting squares.	<ul style="list-style-type: none"> Find the area of these shapes: <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">   </div> A rectangle measures 5 squares long by 3 squares wide. What is the area of the shape? Max is building a patio made of 24 square slabs. He has torn the paper with his design on. What would his complete design look like? Draw it on the grid. 	<ul style="list-style-type: none"> A shape has the area of 17cm^2. Could the shape be a rectangle? Explain your answer. A rectangle measures 5 squares by 3 squares. Amy says 'The area must be 8 squares' Do you agree? Explain your thinking. The area of any rectangle has an even number of squares. Do you agree? Prove it. 	<ul style="list-style-type: none"> A fourteen sided shape has an area of eight squares. Draw the shape on squared paper. How many shapes can you draw that have an area of 8 square centimetres?

Area and Perimeter

Find the area of rectilinear shapes by counting squares.

- Find the area of these shapes:



- Draw a rectangle that is 6 centimetres long and 4 centimetres wide.
What is the area of the rectangle?

- A shape has an area of 31cm^2 . Could the shape be a rectangle? Explain your answer.

- True or False?**

The area of any square has an even number of squares.

Prove it.

- Always, sometimes, never**

The bigger the perimeter of a shape, the bigger the area.

Convince me.

- A twelve sided shape has an area of nine squares. Draw the shape on squared paper.

- How many shapes can you draw that have an area of 12 square centimetres?

- Jack has drawn a shape that has 6 sides. All the angles are right angles. It has an area of more than 12 centimetre squares and less than 16 centimetre squares.
Draw a shape that Jack could have drawn.
Can you find any others?