## Step 3: Perimeter of a Rectangle

## National Curriculum Objectives:

Mathematics Year 4: (4M7a) Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

## About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

## More Year 4 Length and Perimeter resources.

Did you like this resource? Don't forget to review it on our website.

## Perimeter of a Rectangle

1. Mr Hussain wants to put a border around the perimeter of his rectangular vegetable patch.

The length of the patch is twice its width and the total perimeter is $1,500 \mathrm{~cm}$.


Mr Hussain can use a combination of up to 3 different sized panels for the border.
Investigate the possible combinations of panels that Mr Hussain could use to enclose the vegetable patch.
2. Hannah has a square and 3 other rectangles. She has written the perimeter of one rectangle in the centre of it.

Some information is missing but the total perimeter of all 4 shapes is 420 cm .


Using the information given, investigate what the missing values and the perimeters of each shape could be.

## Perimeter of a Rectangle

1. Mr Hussain wants to put a border around the perimeter of his rectangular vegetable patch.

The length of the patch is twice its width and the total perimeter is $1,500 \mathrm{~cm}$.



500 mm


Mr Hussain can use a combination of up to 3 different sized panels for the border.
Investigate the possible combinations of panels that Mr Hussain could use to enclose the vegetable patch.
Various answers, for example: Mr Hussain could use $20 \times 500 \mathrm{~mm}$ panels, $20 \times 200 \mathrm{~mm}$ panels and $10 \times 100 \mathrm{~mm}$ panels.
not to scale
2. Hannah has a square and 3 other rectangles. She has written the perimeter of one rectangle in the centre of it.

Some information is missing but the total perimeter of all 4 shapes is 420 cm .


Using the information given, investigate what the missing values and the perimeters of each shape could be.
Various answers, example given above.

