Mathematics

# **Compare the area and perimeter of rectangles**

Mr Kelsall

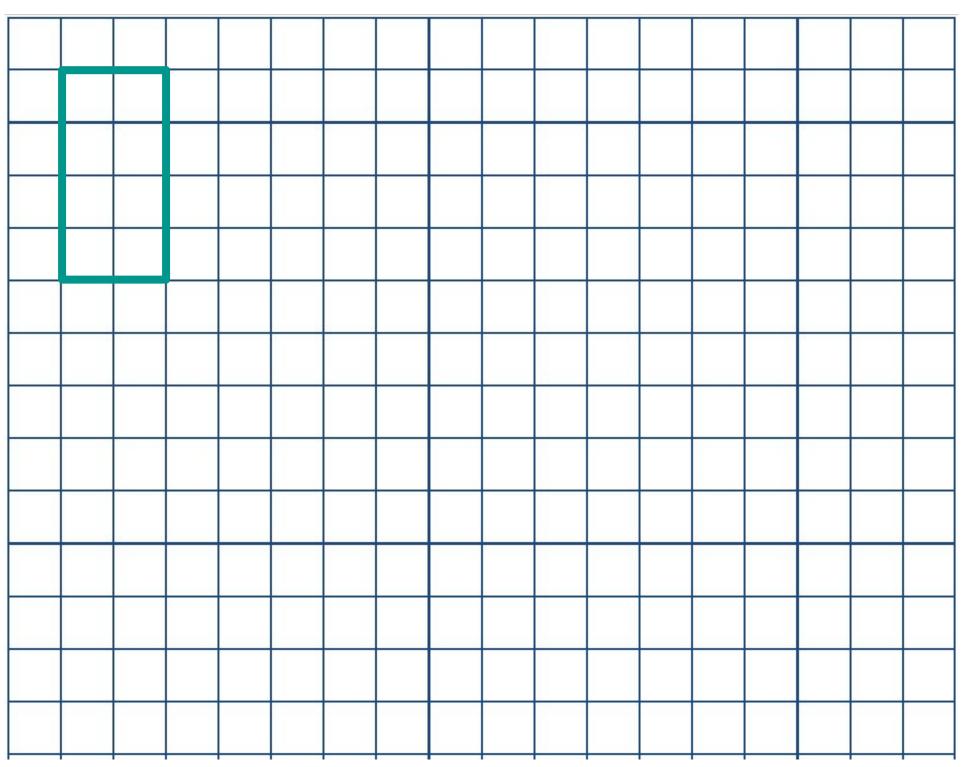


#### Warm up

How many different ways can you find to make rectilinear shapes with a perimeter of 12 units?

Why have I used the word units and not centimetres?

2 + 2 + 4 + 4 = 12 units

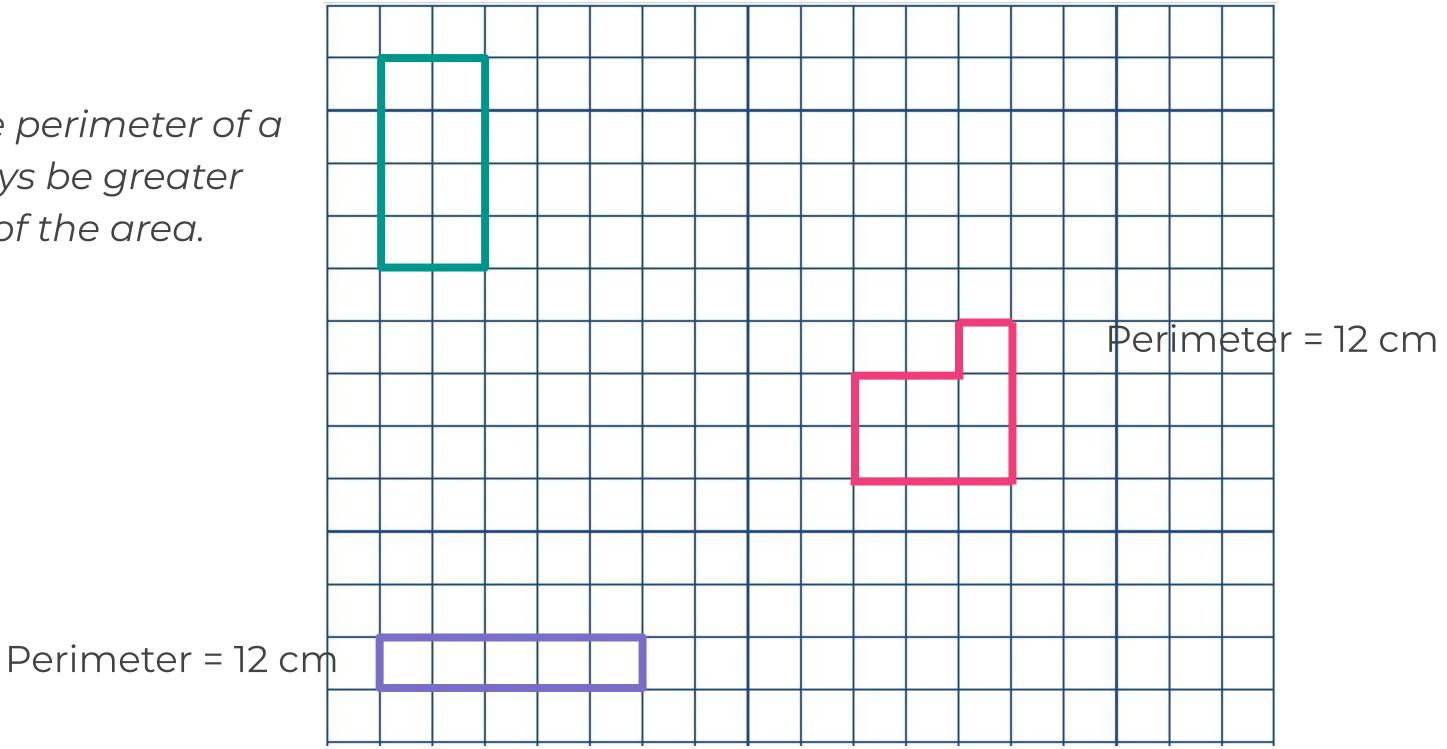




## What do you think of the following statement?

Perimeter = 12 cm

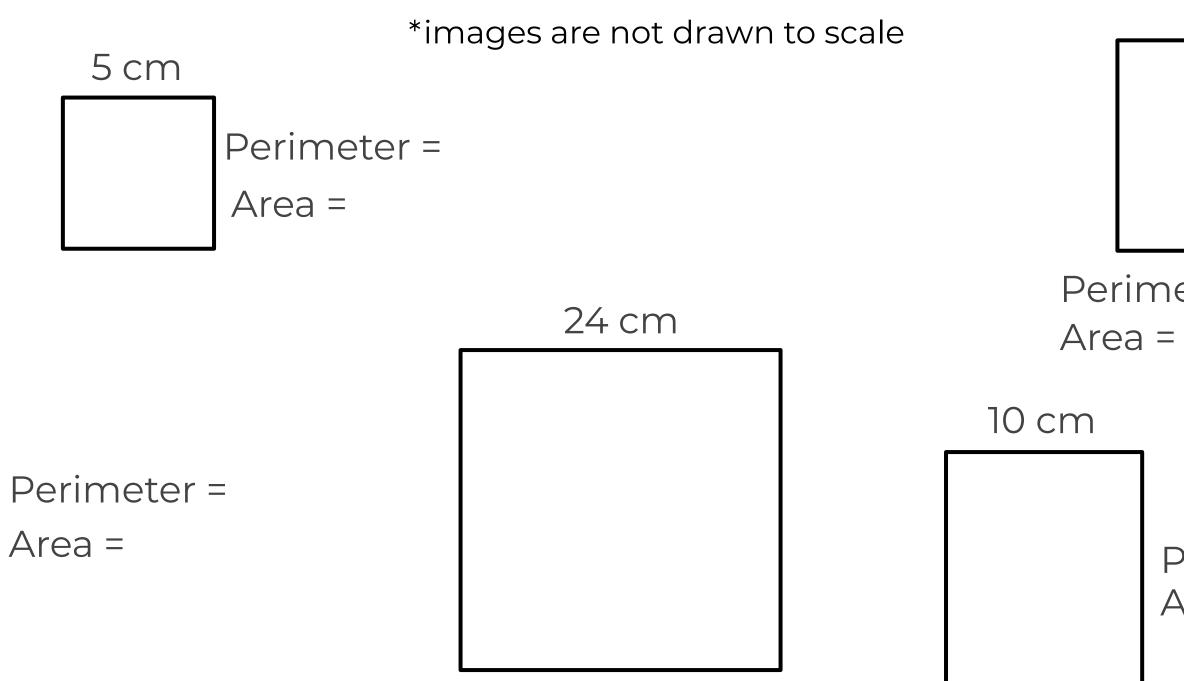
The value of the perimeter of a shape will always be greater than the value of the area.





#### **Explore this statement**

The area of a square will always have a greater value than the perimeter.



6 cm

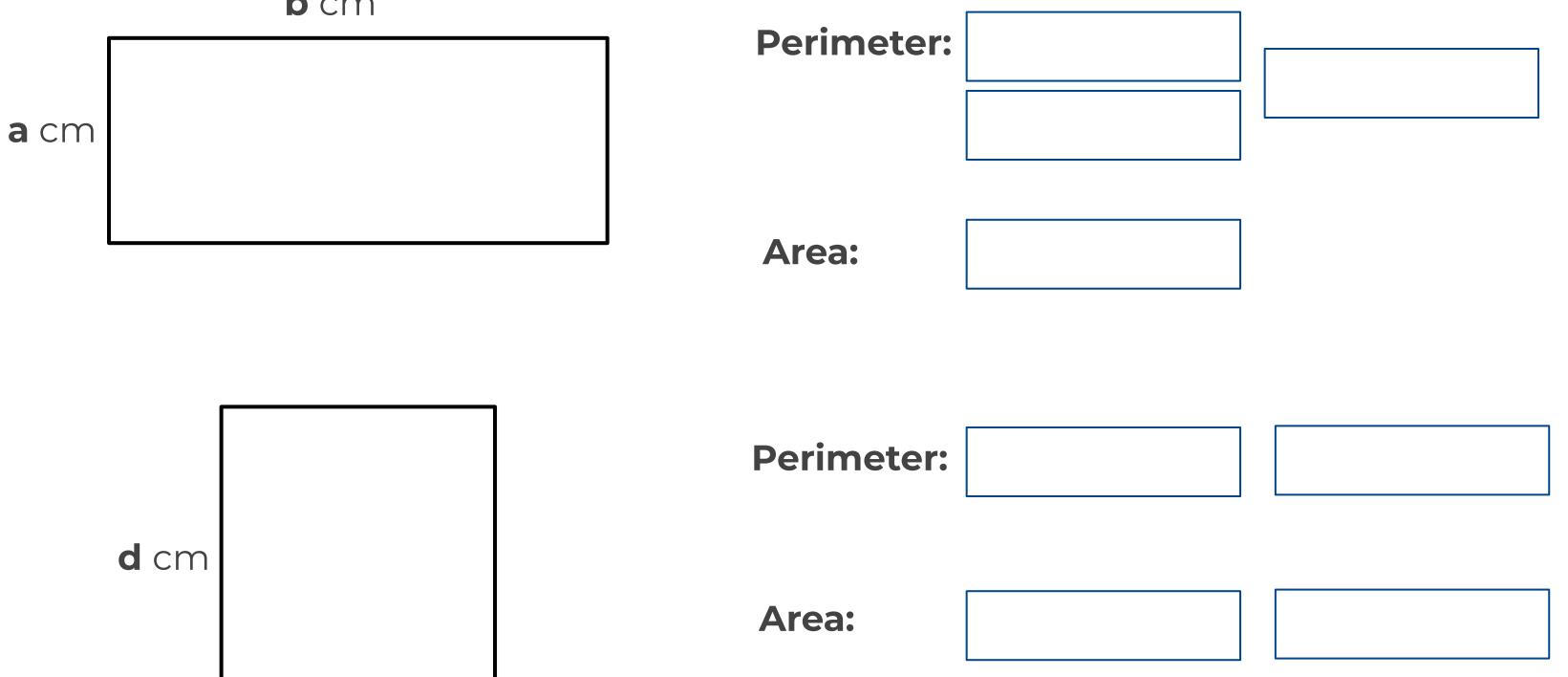
Perimeter =

Perimeter = Area =



#### How can we describe the area and perimeter of the following rectangles?



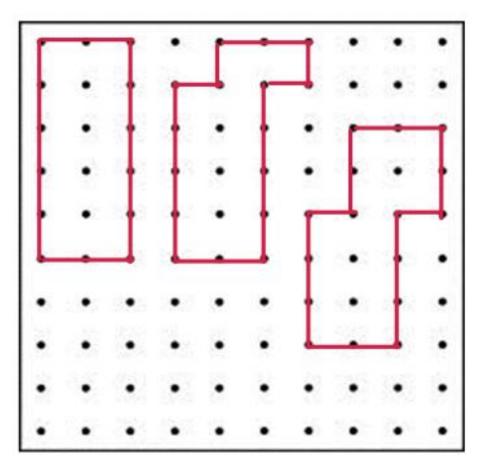




### Independent task

Investigate the perimeter and area of rectilinear shapes.

- How many different rectilinear shapes can you find with a a) perimeter of 12 cm?
- How many rectilinear shapes can you find with an area of 12 b)  $cm^2$ ?





Examples of rectilinear shapes with an area of 10 cm<sup>2</sup>

