Extension White Rose Maths

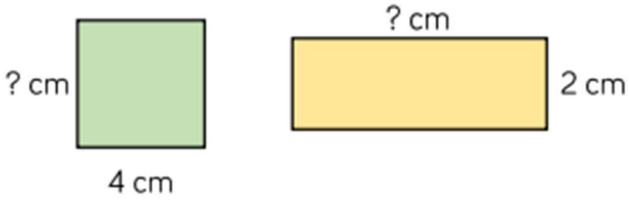
Reasoning and Problem Solving

Question 1

The width of a rectangle is 2 metres less than the length.
The perimeter of the rectangle is between 20 m and 30 m.
What could the dimensions of the rectangle be?
Draw all the rectangles that fit these rules.
Use 1 cm = 1 m.

Question 2

Each of the shapes have a perimeter of 16 cm.
Calculate the lengths of the missing sides.



Question 3

Always, Sometimes, Never

When all the sides of a rectangle are odd numbers, the perimeter is even.
Prove it.

Question 4

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

Why could the other values not be the perimeter?