

Monday: Additional Reference Page 1

Draw out the following shapes on squared paper:



Order the shapes from smallest to largest perimeter.

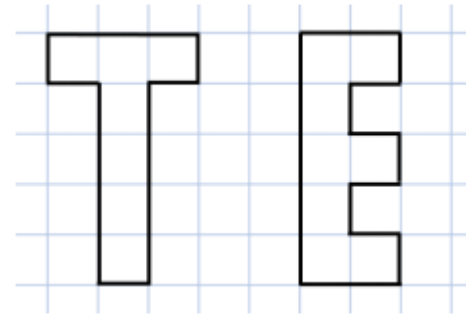
You have 10 paving stones to design a patio. The stones are one metre square.

The stones must be joined to each other so that at least one edge is joined corner to corner.



Use squared paper to show which design would give the longest perimeter and which would give the shortest.

Which of these shapes has the longest perimeter?



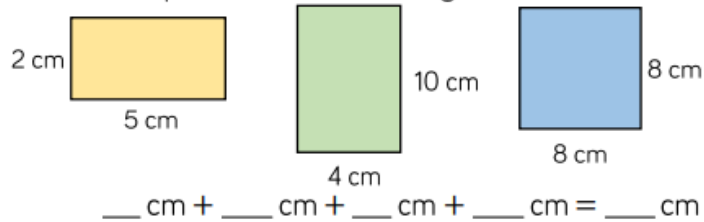
Explore other letters which could be drawn as rectilinear shapes.

Put them in order of shortest to longest perimeter.

Can you make a word?

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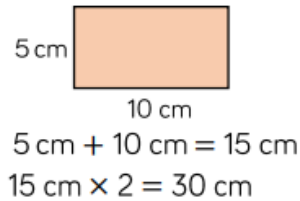
Calculate the perimeter of the rectangles.



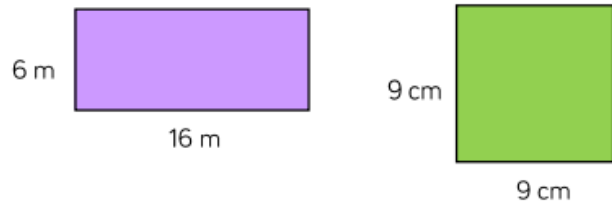
Eva is finding the perimeter of the rectangle.



I added the length and width together and then multiplied by 2



Use Eva's method to find the perimeter of the rectangles.



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

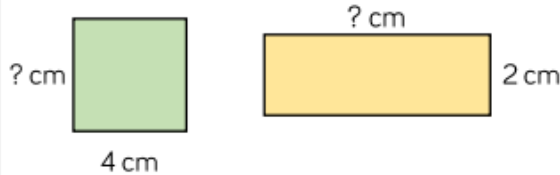
The perimeter of the rectangle is between 20 m and 30 m.

What could the dimensions of the rectangle be?

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

Each of the shapes have a perimeter of 16 cm.

Calculate the lengths of the missing sides.



Always, Sometimes, Never

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

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

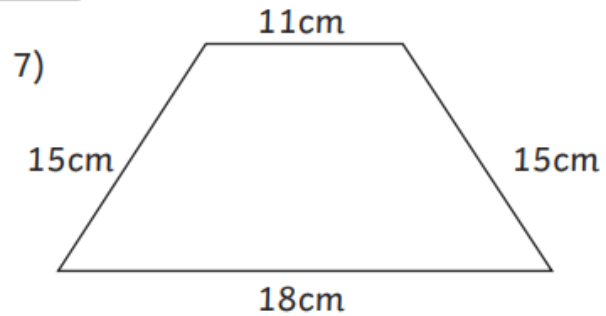
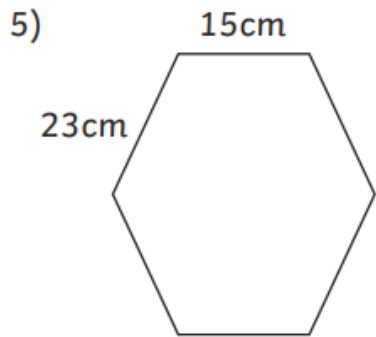
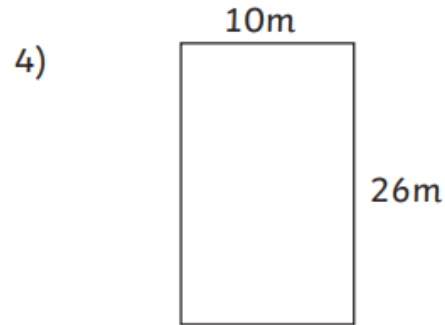
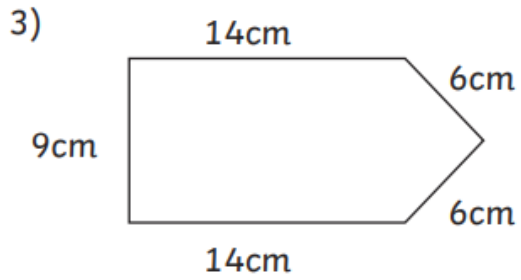
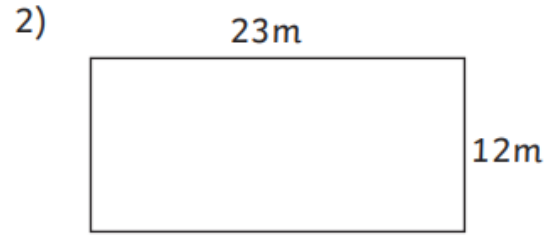
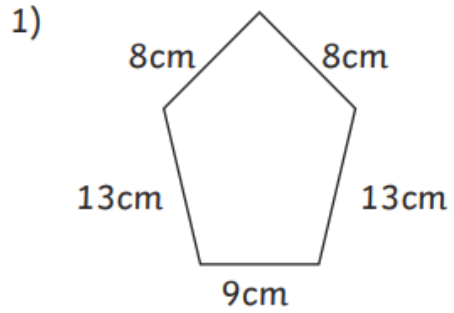


Which of these lengths could be the perimeter of the shape?

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

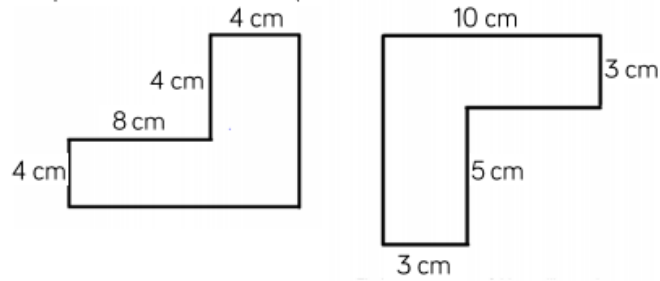
Why could the other values not be the perimeter?

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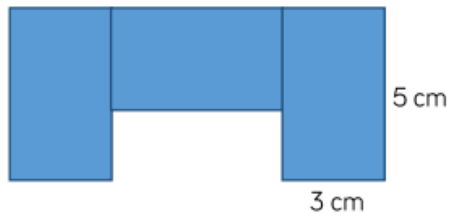


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Find the perimeter of the shapes.

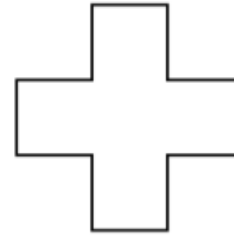


The shape is made from 3 identical rectangles. Calculate the perimeter of the shape.



How many different rectilinear shapes can you draw with a perimeter of 24 cm? How many sides do they each have? What is the longest side? What is the shortest side?

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

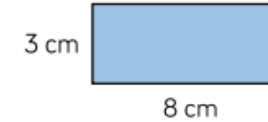


Which of these lengths could be the perimeter of the shape?

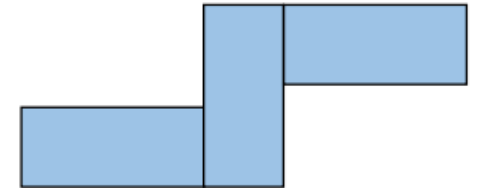
48 cm, 36 cm, 80 cm, 120 cm, 66 cm

Can you think of any other answers which could be correct?

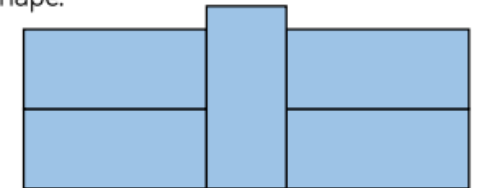
Amir has some rectangles all the same size.



He makes this shape using his rectangles. What is the perimeter?

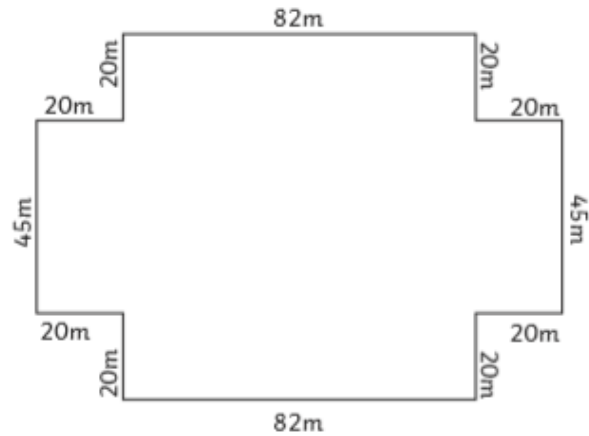


He makes another shape using the same rectangles. Calculate the perimeter of this shape.

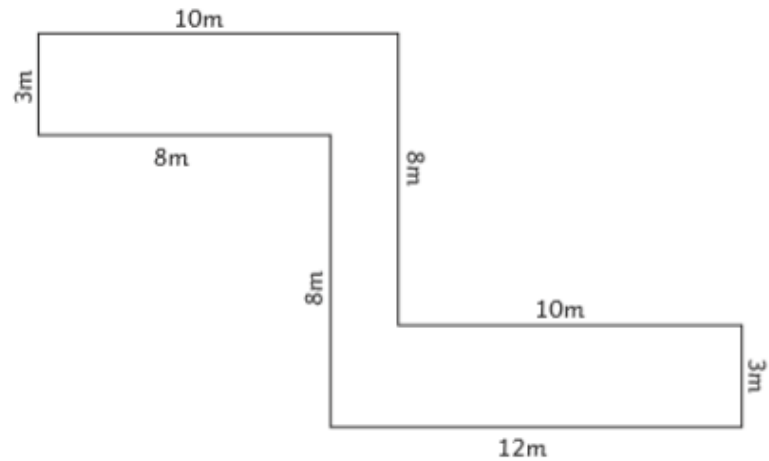


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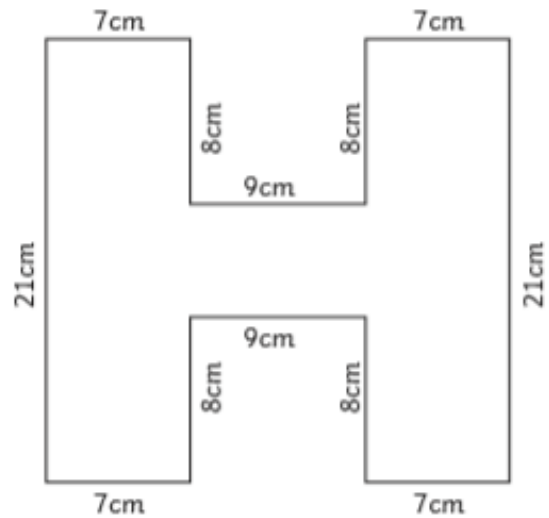
1. Jamie ran around the perimeter of the local park. He used his smartphone to draw a map and measure the distance as he ran. From the map, work out the total distance he ran all the way around the perimeter of the park.



2. Farmer Green wants to put a fence up for his ferret enclosure. What is the length of chicken wire he needs to go around the whole perimeter of the enclosure?



3. Harry has designed a T-shirt with his initial on it. He wants to go around the edge of the letter in shiny black fabric paint to make it stand out. Work out the perimeter of the shape so that Harry can work out how much paint he needs.



4. The school caretaker needs to paint a white line around the perimeter of the staff car park at school. Use the diagram to work out the length of the white line she will need to paint.

