

Tuesday 9th June 2020

Calculating Perimeters on a Grid

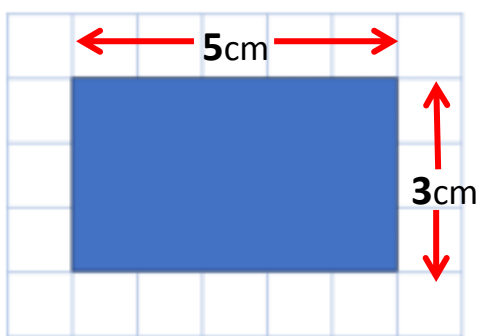
Let's just remind ourselves. The perimeter is the distance around a shape.

What is a perimeter? **The perimeter is the distance around a shape.**

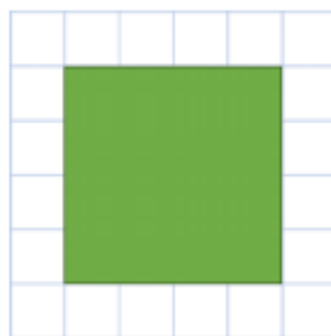
Here are 3 rectangular shapes that have been put on squared paper. The squared paper will help you to calculate the perimeter. Remember? Imagine the squared paper is covered with 1cm squares. Count the squares directly around the shape.

Calculate the perimeter of each shape. The first one has been done for you!

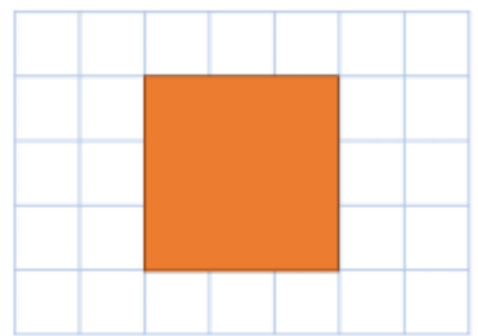
1. a)



b)



c)



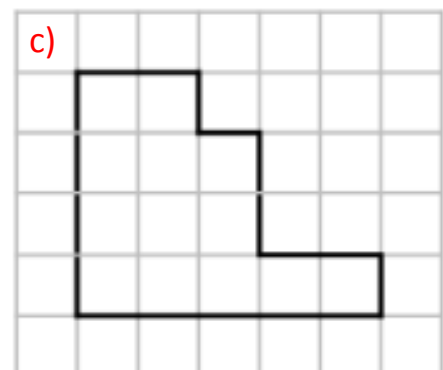
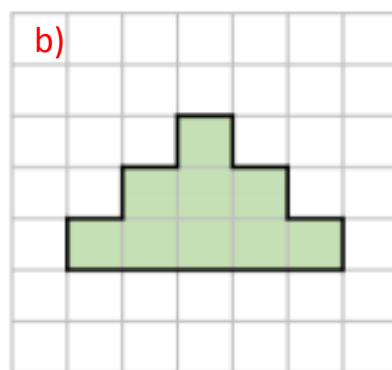
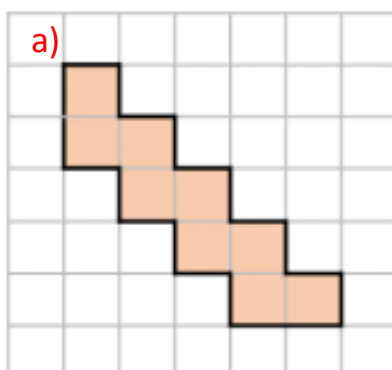
a) $5 + 3 + 5 + 3 = 16\text{cm}$ $P = 16\text{cm}$

2. In your book, draw two different rectangular shapes. Use a ruler and think about the length of each side before you draw them. A) $P = 14\text{cm}$ B) $P = 10\text{cm}$.

USE A PENCIL AND A RULER FOR THESE MATHEMATICAL DRAWINGS!

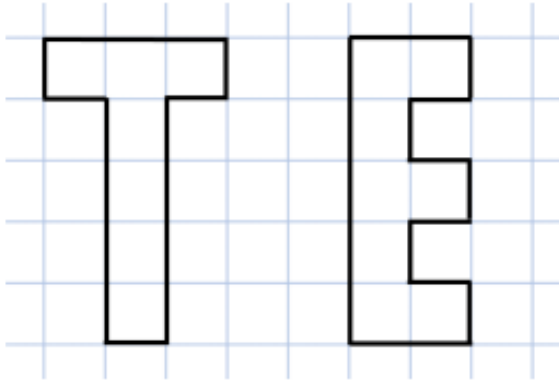
3. Now, use the squares in your book to draw two different rectangular shapes. They must be different BUT they must both have a Perimeter that measures 28cm.

4. Look at the rectilinear (*straight lined*) shapes below. Calculate the perimeter of each one to decide which has the longest perimeter and which has the shortest, then in your book, draw each one in order of size starting with the shortest perimeter.



CHALLENGE

Which of these shapes has the longest perimeter?



Explore other letters which could be drawn as rectilinear shapes.

Once you have calculated the perimeter of these two shapes, you can write a word and calculate the perimeter of all the letters in that word.