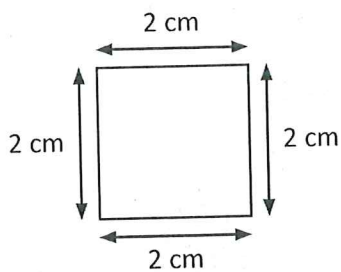
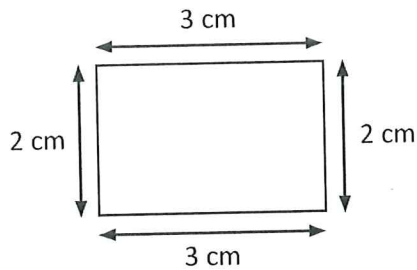


Perimeter – perimeter of shapes

Perimeter is the length around the outside of a shape.



The perimeter of the square is 8 cm.



The perimeter of the rectangle is 10 cm.

1 Draw the following shapes and work out their perimeters:

a A square with 3 cm sides.

P = cm

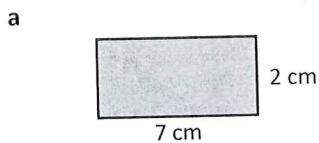
b A rectangle with two 4 cm sides and two 3 cm sides.

P = cm

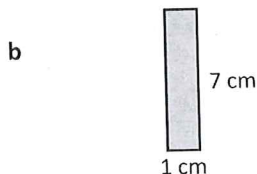
c A rectangle that is twice as long as it is wide.

P =

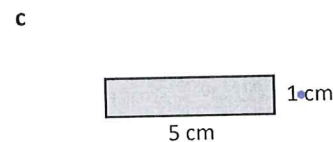
2 These shapes are not to scale, so you can't use your ruler to work out the perimeter. Can you find the perimeter of these shapes?



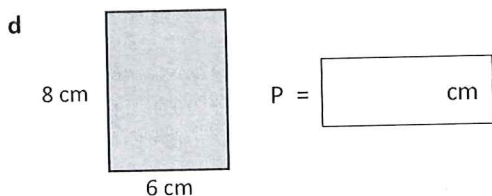
P = cm



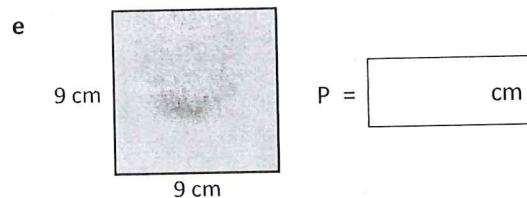
P = cm



P = cm



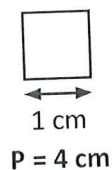
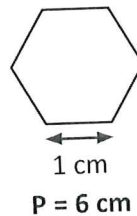
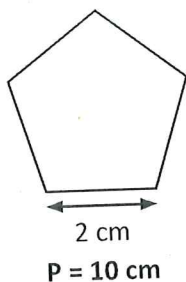
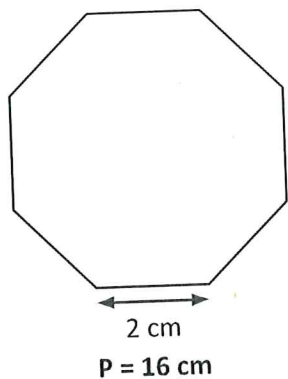
P = cm



P = cm

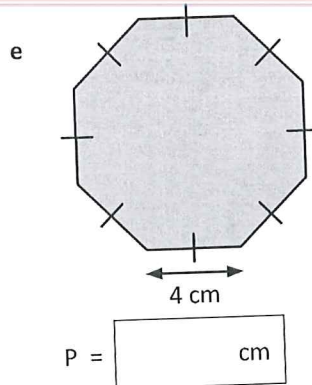
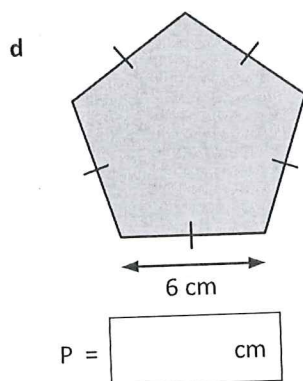
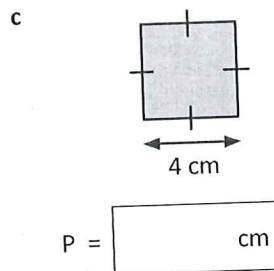
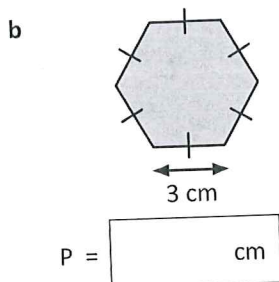
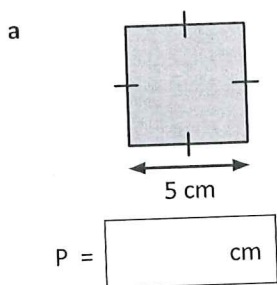
Perimeter – perimeter of shapes

These regular polygons* have sides of equal lengths.



3 Find the perimeter of these regular polygons*:

*Not drawn to scale.



What is the fastest way to do this?



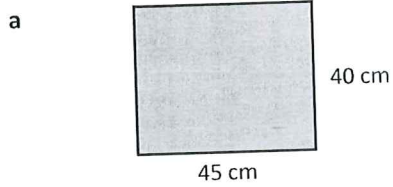
THINK

4 The perimeters of some regular polygons are given in the table below. Fill in the length of the sides:

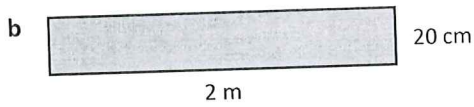
Perimeter	24 cm	40 cm	48 cm	25 cm
Length of each side				

Perimeter – calculate perimeter

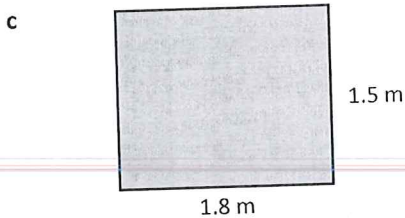
1 Find the perimeter of these shapes. Choose a unit of measurement to express your answer.



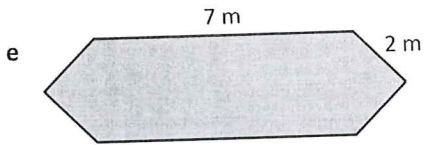
P =



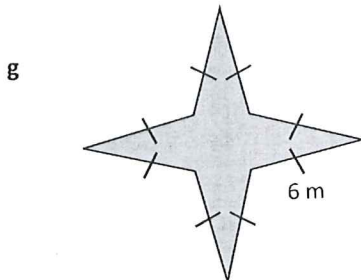
P =



P =



P =

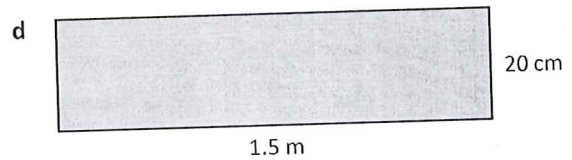


P =

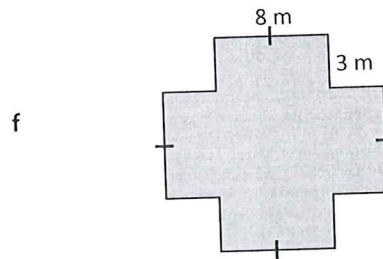
These shapes are all symmetrical. How does that help me?



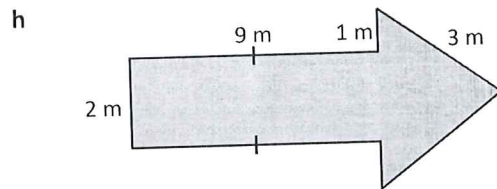
THINK



P =



P =

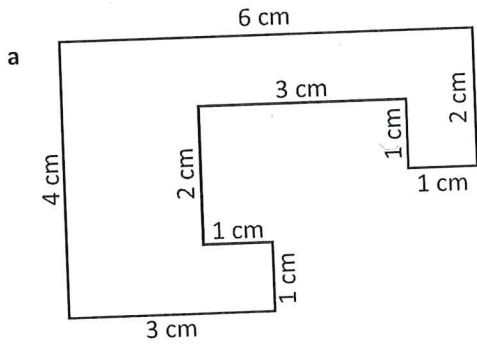


P =

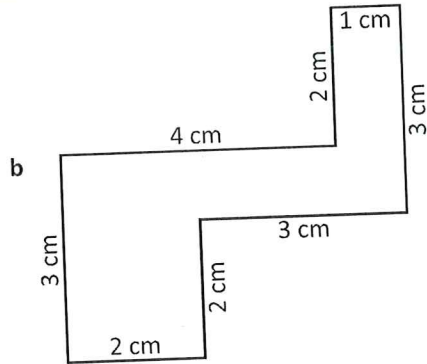
Perimeter – calculate perimeter

Irregular shapes are not symmetrical. This means we need to measure each side.

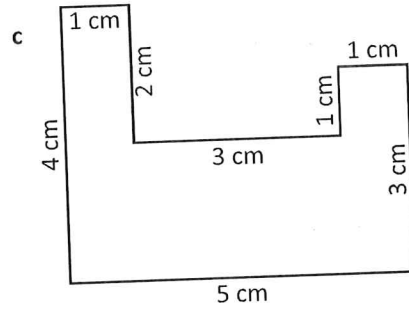
2 Find the perimeters of these irregular shapes:



P = cm



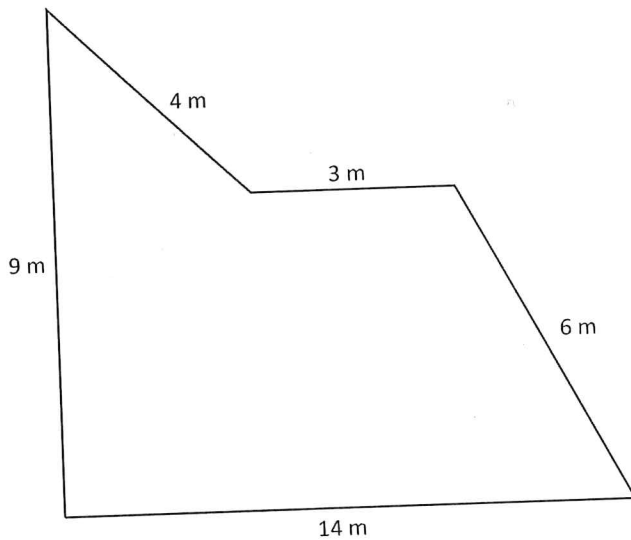
P = cm



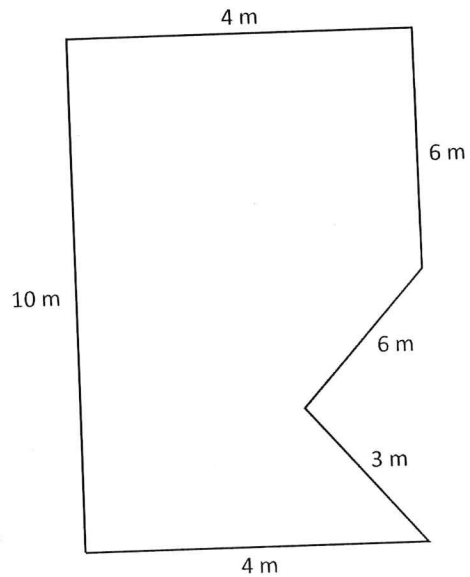
P = cm

3 Which of these designs for backyard pools would be the least expensive to fence?

Pool A



Pool B



Why? _____

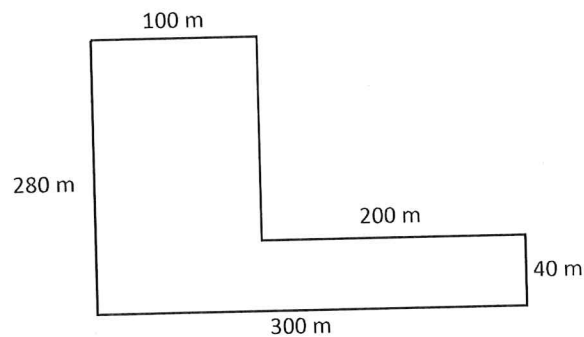


What to do

- a The length of a rectangle is double its width. Find the perimeter if the width is 200 cm.

- b The length of a rectangle is 6 times its width. Find the length and width of the rectangle if the perimeter is 7 metres.

- c Charlie ran around the school 3 times. How far did she run? Write your answer in km.

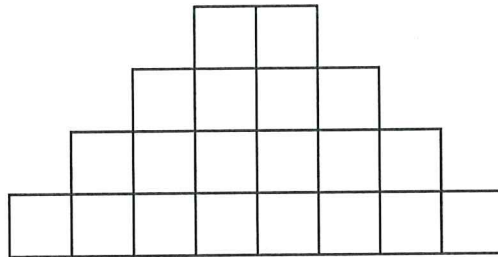


- d Jake wants to build a fence around his swimming pool to comply with safety regulations. If the length of his pool area is 6 metres and the width is 4 metres, how much will it cost? Fencing costs \$55.50 a metre.

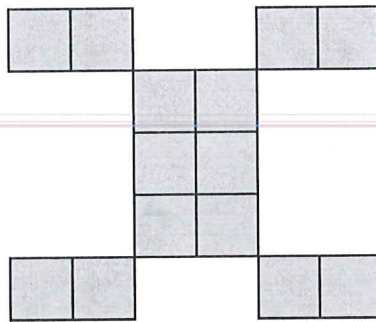


What to do

- a The area of each square is 9 cm^2 . What is the perimeter of this figure?



- b The figure is made up of 14 squares. Each square has an area of 36 cm^2 . What is the perimeter?



- c The area of this rectangle is 288 cm^2 . If all the smaller rectangles are exactly the same, what is the perimeter of one rectangle?

