

Area and perimeter

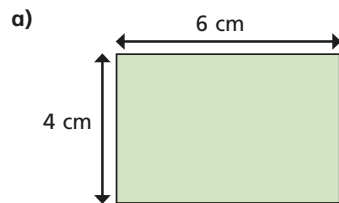
1 Use the words to complete the sentences.

- perimeter cm^2 cm m
- area m^2 inside around

_____ is the amount of space _____ a two-dimensional shape. It can be measured in units such as _____ or _____

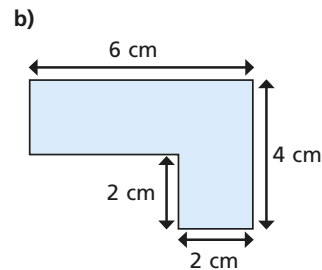
_____ is the distance _____ a two-dimensional shape. It can be measured in units such as _____ or _____

2 Work out the areas and perimeters of the shapes.



perimeter = cm

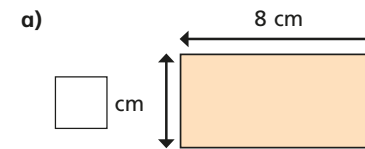
area = cm^2



perimeter = cm

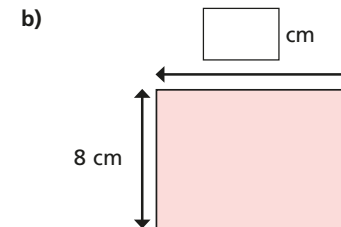
area = cm^2

3 Work out the missing values.



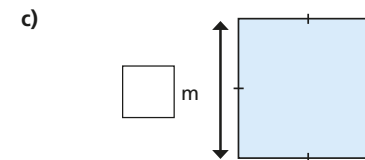
area = 32 cm^2

perimeter = cm



area = cm^2

perimeter = 40 cm

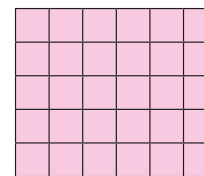


area = m^2

perimeter = 36 m

4 Work out the areas and perimeters of the shapes.

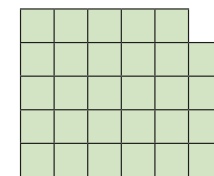
Shape A



area = cm^2

perimeter = cm

Shape B



area = cm^2

perimeter = cm

What do you notice?



5



Tommy

If you start with a rectilinear shape, when you increase the area, the perimeter will increase.

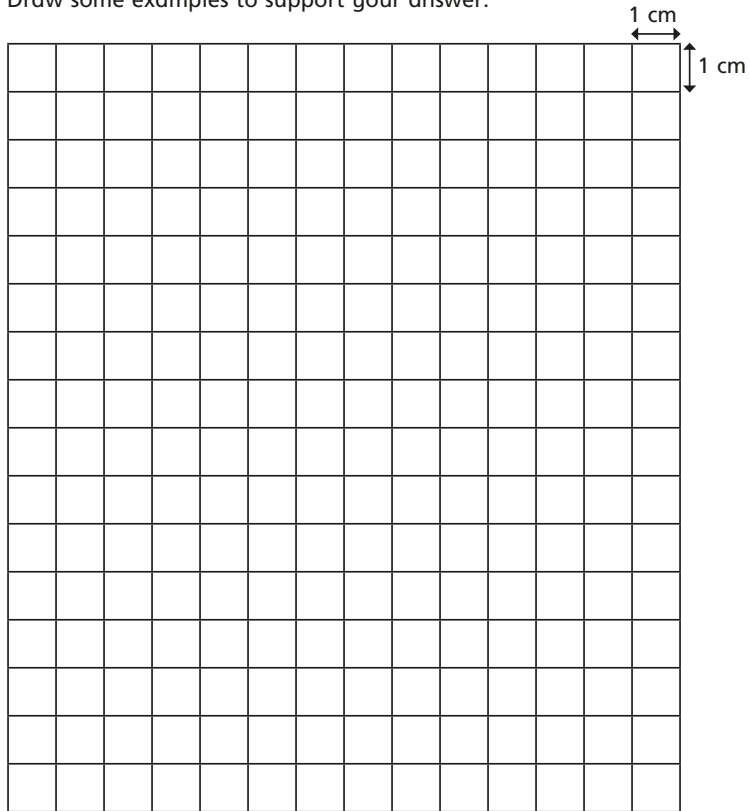
Amir



It depends on the shape.

Who do you agree with? _____

Draw some examples to support your answer.

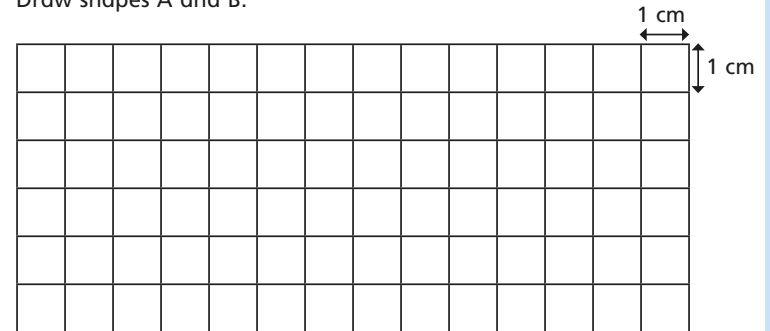


6

Two rectilinear shapes, A and B, each have an area of 12 squares.

- Shape A has the largest perimeter possible.
- Shape B has the smallest perimeter possible.

Draw shapes A and B.



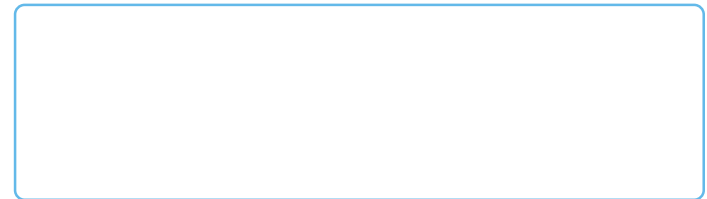
What do you notice?

7

Mr Jones has 50 m of fencing.

He wants to make a rectilinear enclosure using all the fencing.

- a) Draw an example of a shape he could make. Give units on your diagram.



b) What is the greatest possible area of the enclosure?

c) What is the smallest possible area of the enclosure?

