

Area and perimeter

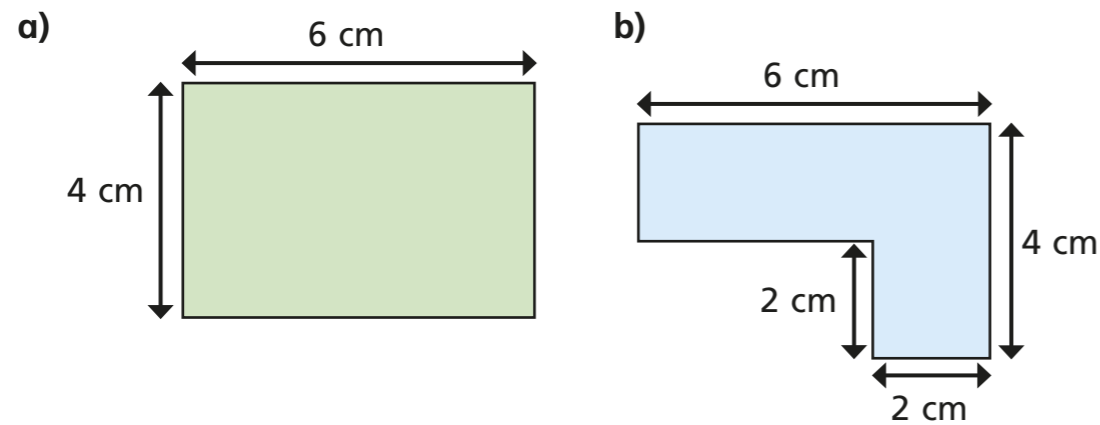
1 Use the words to complete the sentences.

- 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.



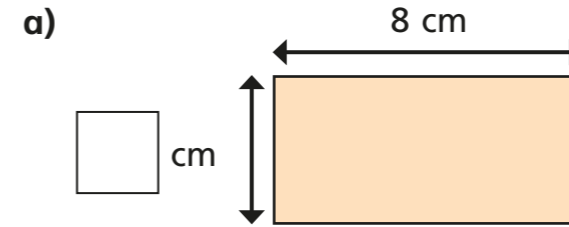
perimeter = cm

area = cm^2

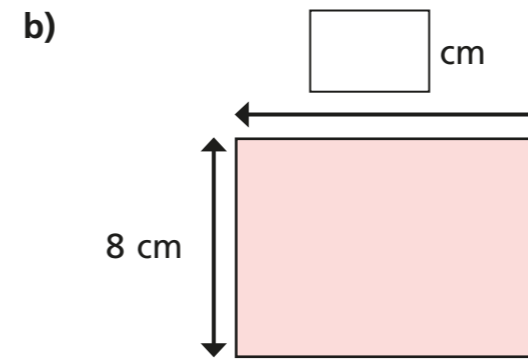
perimeter = cm

area = cm^2

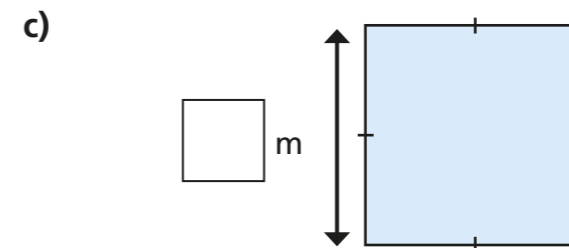
3 Work out the missing values.



area = 32 cm^2
perimeter = cm



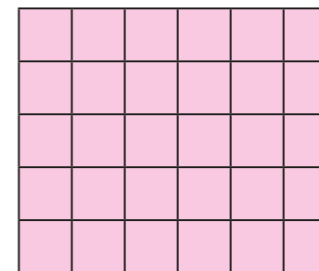
area = cm^2
perimeter = 40 cm



area = m^2
perimeter = 36 m

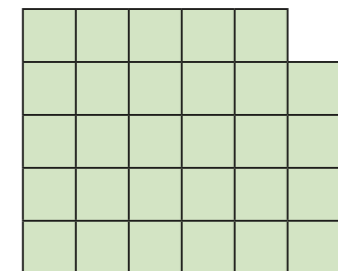
4 Work out the areas and perimeters of the shapes.

Shape A



area = cm^2
perimeter = cm

Shape B

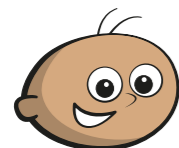


area = cm^2
perimeter = cm

What do you notice?



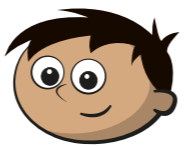
5



Tommy

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

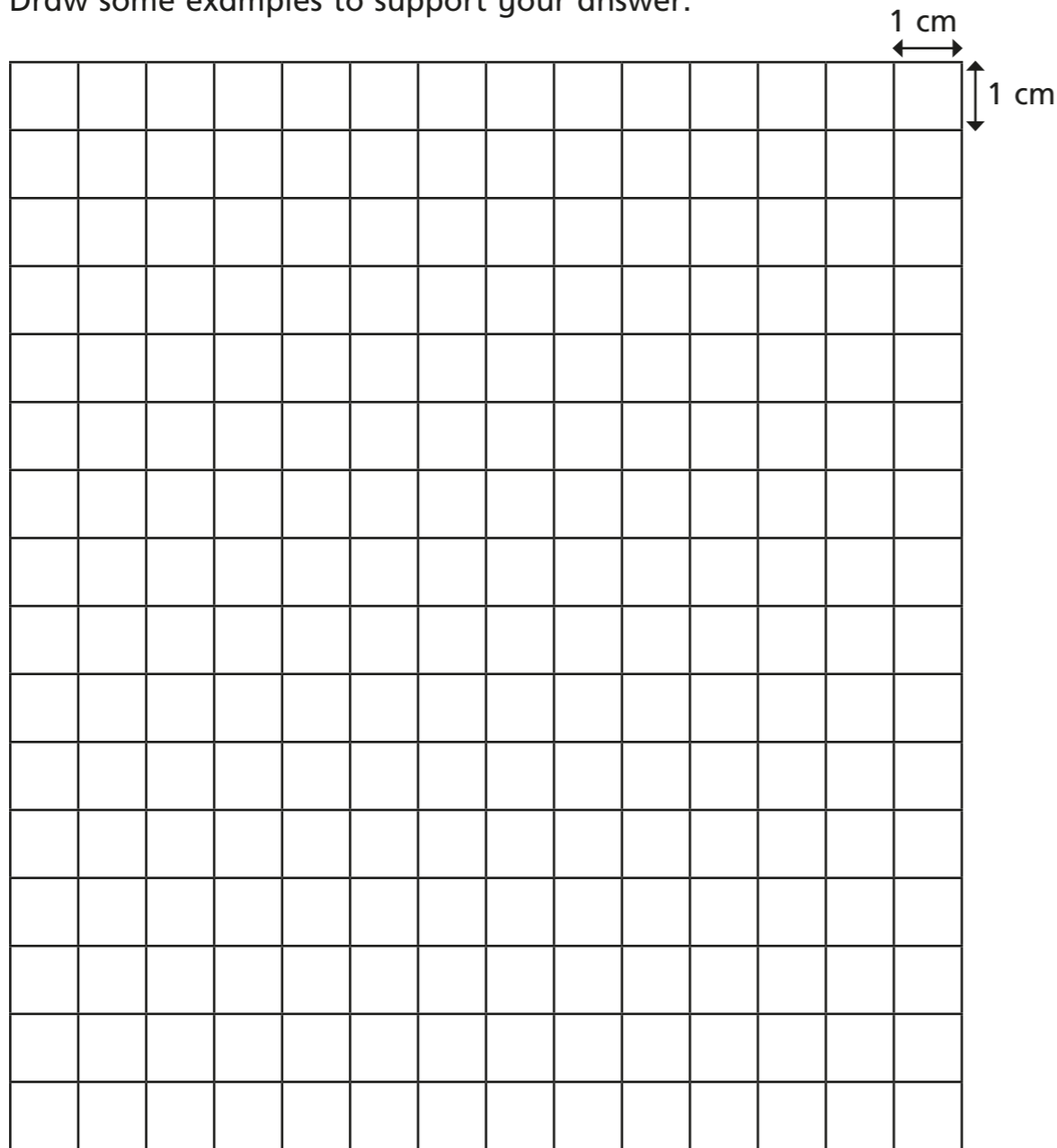
Amir



It depends on the shape.

Who do you agree with? _____

Draw some examples to support your answer.

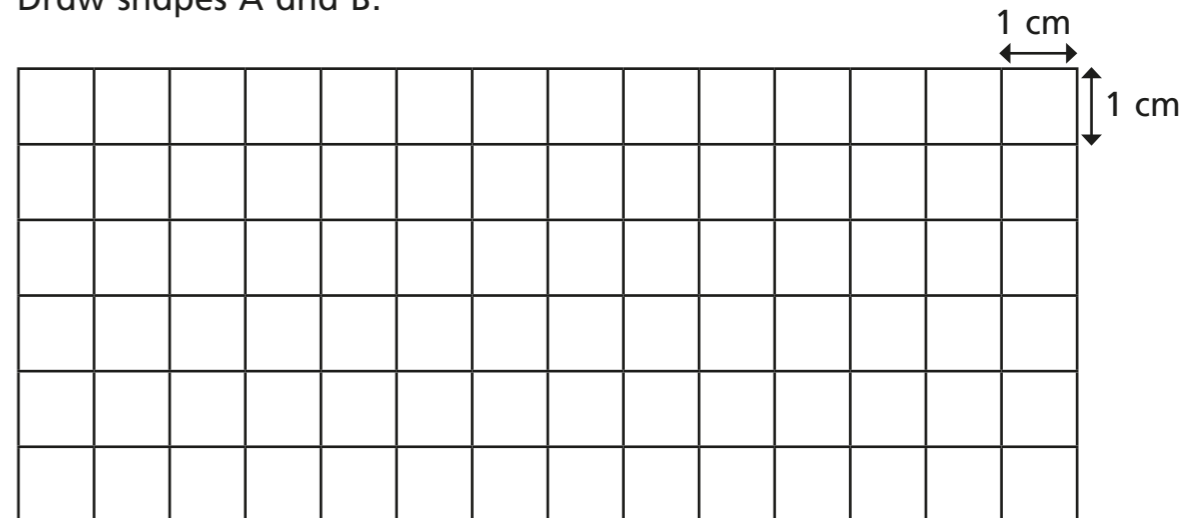


6

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.

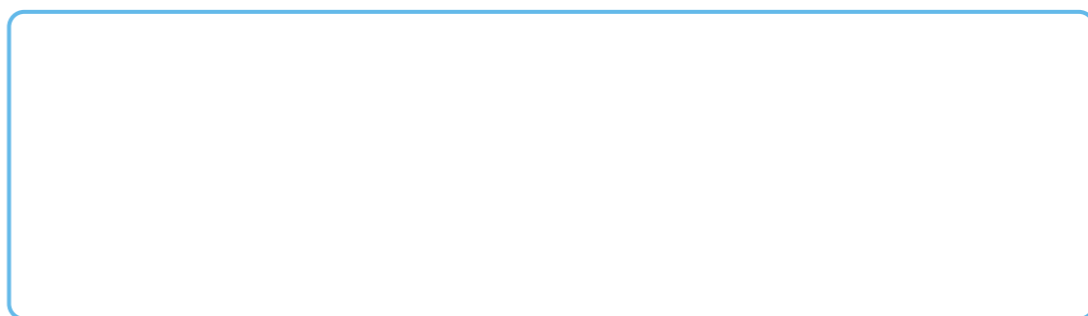


What do you notice?

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?

