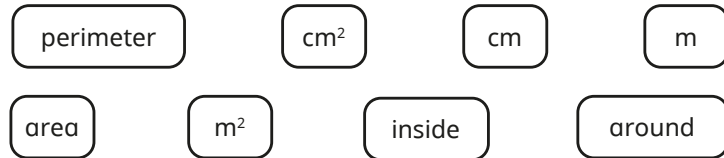


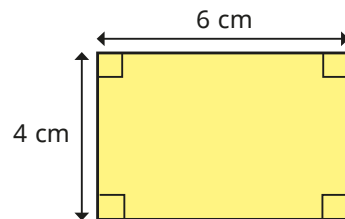
1 Use the cards to complete the sentences.



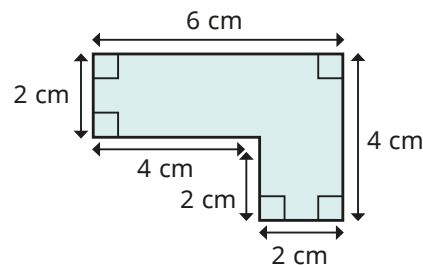
_____ is the amount of space _____
a two-dimensional shape. It can be measured in units such as
_____ or _____
_____ is the distance _____ a two-dimensional
shape. It can be measured in units such as _____ or _____

2 Work out the areas and perimeters of the shapes.

a)

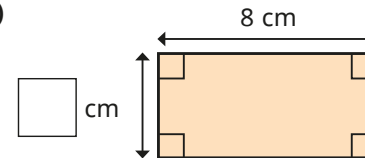


b)



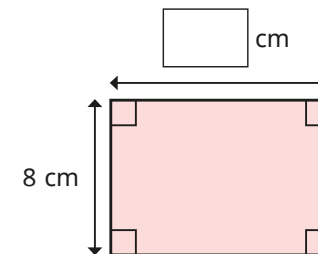
3 Work out the missing values.

a)



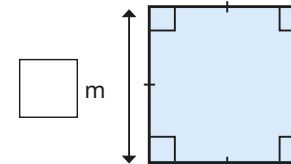
$$\begin{aligned} \text{area} &= 32 \text{ cm}^2 \\ \text{perimeter} &= \boxed{} \text{ cm} \end{aligned}$$

b)



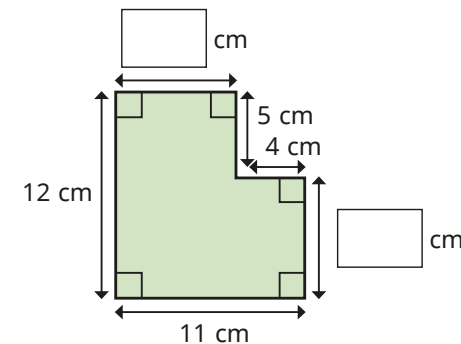
$$\begin{aligned} \text{area} &= \boxed{} \text{ cm}^2 \\ \text{perimeter} &= 40 \text{ cm} \end{aligned}$$

c)



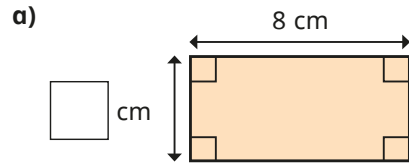
$$\begin{aligned} \text{area} &= \boxed{} \text{ m}^2 \\ \text{perimeter} &= 36 \text{ m} \end{aligned}$$

d)

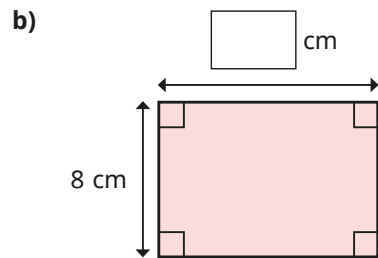


$$\begin{aligned} \text{area} &= \boxed{} \text{ cm}^2 \\ \text{perimeter} &= \boxed{} \text{ cm} \end{aligned}$$

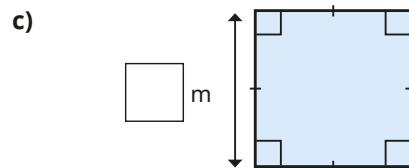
3 Work out the missing values.



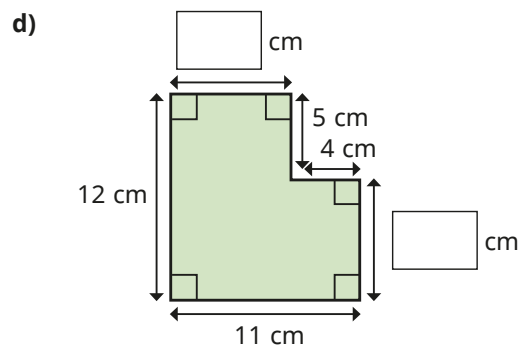
area = 32 cm^2
perimeter = cm



area = cm^2
perimeter = 40 cm

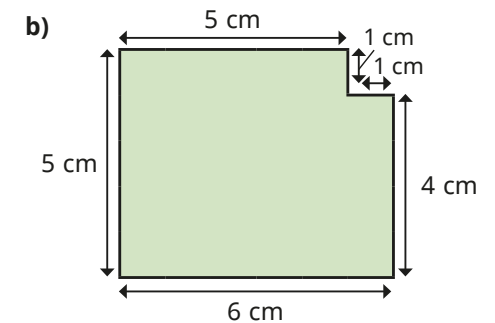
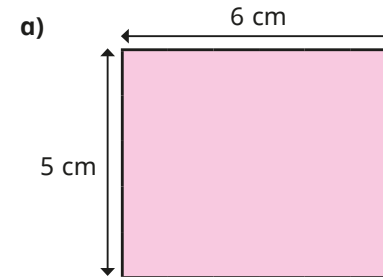


area = m^2
perimeter = 36 m



area = cm^2
perimeter = cm

4 Work out the areas and perimeters of the shapes.



What do you notice?

5 Draw two rectilinear shapes that have the same perimeter but a different area.

How did you do it?

Talk about it with a partner.

6 Two rectilinear shapes, A and B, each have an area of 12 cm^2

- 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.

Each side of the enclosure must be a whole number of metres.

- Draw an example of a shape he could make. Give units on your diagram.
- What is the greatest possible area of the enclosure?
- What is the smallest possible area of the enclosure?