## Area and perimeter

1
Use the words to complete the sentences.
perimeter
$\mathrm{cm}^{2}$

area

around
$\qquad$ is the amount of space $\qquad$ a
two-dimensional shape. It can be measured in units such as
$\qquad$ or $\qquad$
$\qquad$ is the distance $\qquad$ a two-dimensional
shape. It can be measured in units such as $\qquad$ or
(2) Work out the areas and perimeters of the shapes.
a)

b)

$\square$
$\square$
(3) Work out the missing values.
a)

area $=32 \mathrm{~cm}^{2}$
perimeter $=$ $\square$ cm
b)

c)

perimeter $=36 \mathrm{~m}$

4 Work out the areas and perimeters of the shapes.
Shape A

area $=\square \mathrm{cm}^{2}$
perimeter $=$
 cm



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


Amir the shape.

Who do you agree with? $\qquad$
Draw some examples to support your answer.


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? $\square$
c) What is the smallest possible area of the enclosure? $\square$
$\square$

