

# Area and Perimeter



## ACTIVITY 1

Below are six descriptions. Are they talking about perimeter or area? Draw a line to the correct mathematical term.

The size of a surface.

The length of the outside of a shape.

Add the length of a shape's sides to calculate.

For rectangles, multiply length by width.

Measured in units squared e.g.  $\text{cm}^2$  or  $\text{m}^2$ .

A path that surround the area.

Perimeter



Area



## ACTIVITY 2

Using the grid below. Can you find which shapes answer the following questions?

Which shape has an area of  $2\text{cm}^2$ ?

Which shape has the largest area and what is it?

How much longer is D's perimeter than C's?

How much larger is F's area to E's?

How many times could G fit into D?

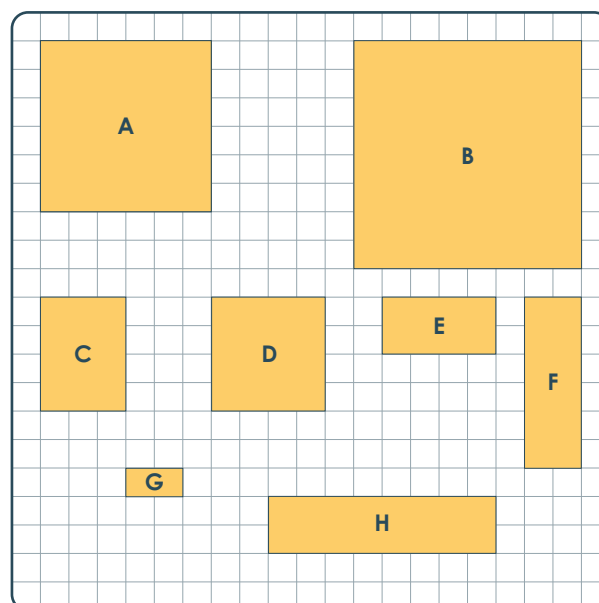


Diagram is not to scale, but take each grid square as  $1\text{cm} \times 1\text{cm}$ .

# Area and Perimeter



## ACTIVITY 3

Storm Bertha has knocked down Nancy's rabbit pen. Originally the pen was 3m x 12m, but 6m of the fencing has been damaged.



What dimensions should Nancy build a new rectangular pen to give her the largest area?

Record your working out to prove your answer.



**REMEMBER**  
A square is a special type of rectangle.

Answers:

Activity 1 - AREA

The length of the outside of a shape - PERIMETER

Add the length of a shape's sides to calculate - PERIMETER

For rectangles, multiply length by width - AREA

Measured in units squared e.g. cm<sup>2</sup> or m<sup>2</sup> - AREA

A path that surround the area - PERIMETER

Activity 2

Which shape has an area of 2cm<sup>2</sup>? - C

Which shape has the largest area and what is it? - B 64cm<sup>2</sup>

How much longer is D's perimeter than C's? - 2cm

How much longer is F's area to E's? - 4cm<sup>2</sup>

How many times could G fit into D?

Activity 3  
6m x 6m - 36m<sup>2</sup>