

Hello Year 4s, Today's maths is on <https://whiterosemaths.com/homelearning/year-4> Look for Summer Term - Week 4 (w/c 11th May) - Lesson 4 and watch the video 'Area counting squares'. Do the activity copied below and then try the maths tasks on BBC Bitesize <https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-and-p5-lessons/1>

I have also added an area and perimeter challenge on the last page.

Counting squares

1 Count the squares in each shape to find the area.

A

The area is squares.

B

The area is squares.

C

The area is squares.

Which shape has the greatest area? _____

2 What is the area of the shaded part of the shape?

The area is squares.

3 Here is a kitchen tile.

a) What area of the tile is blue? squares

b) What area of the tile is white? squares

c) What is the total area of the tile? squares

4 These two shapes are made up of squares of the same size.

Jack

These two shapes have the same area.

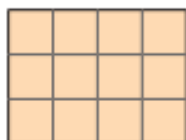
Rosie

The first shape is bigger as it takes up more space.

Who is correct? _____

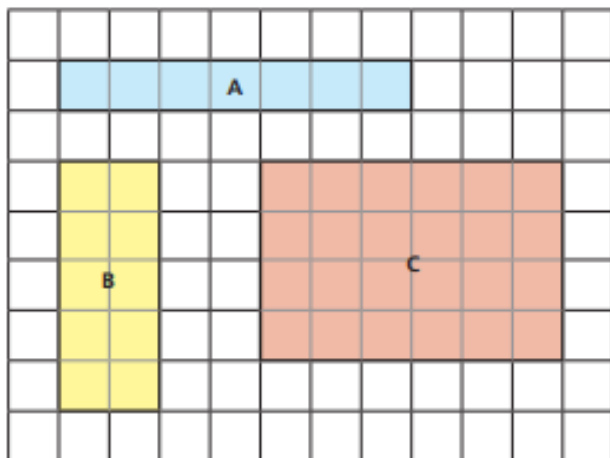
Explain how you know.

5 Here is a rectangle.



- a) The rectangle has rows and columns.
b) What is the area of the rectangle? squares
c) How did you work out the area?

6 Find the area of each rectangle.

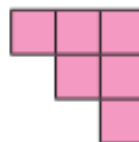


A = squares B = squares C = squares

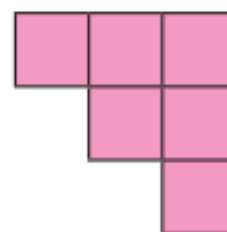
7 Nijah and Eva are making shapes.

They each use 6 squares.

Nijah's shape



Eva's shape

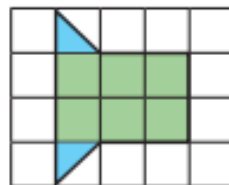


The area of Nijah's shape is equal to the area of Eva's shape.

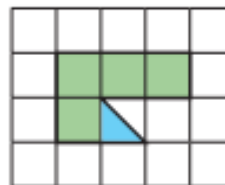
Is this true or false? _____

How do you know?

8 What is the area of each shape?



area = squares



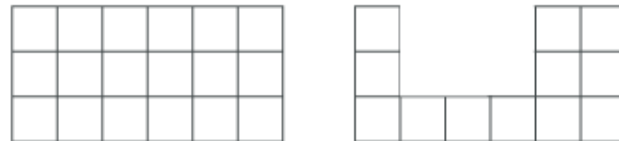
area = squares

Challenge

Area and Perimeter

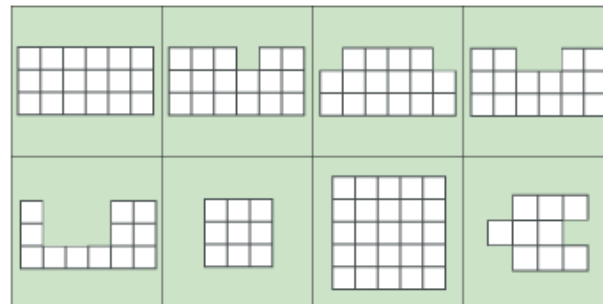
Age 7 to 11 ★

What can you say about these two shapes?



What is the area of each one? What is the perimeter of each one?

What can you say about the shapes below?



Can you draw a shape in which the area is numerically equal to its perimeter? And another?

Can you draw a shape in which the perimeter is numerically twice the area?

Can you draw a shape in which the area is numerically twice the perimeter?

Can you make the area of your shape go up but the perimeter go down?

Can you make the perimeter of your shape go up but the area go down?

Can you draw some shapes that have the same area but different perimeters?

Can you draw some shapes that have the same perimeter but different areas?