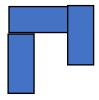
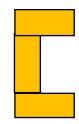
What is area?

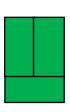


1) a) Using 4 sticky notes, make as many different rectilinear shapes as you can.

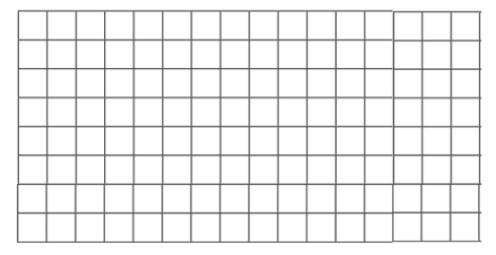
A rectilinear shape is a shape that has straight sides and right angles. It can look like rectangles joined together. Here are some examples using 3 rectangles





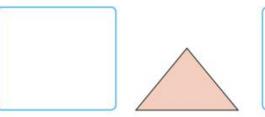


Now you have a go using 4 rectangles (All the same size). How many different shapes can you make? Draw them in the grid below by colouring the squares in the same pattern as the rectilinear shape you made.



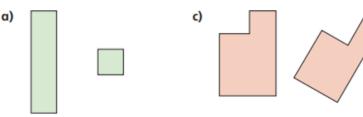
b) All	of the shapes that you have drawn in your grid have the same
area.	Explain how you know that this is correct.

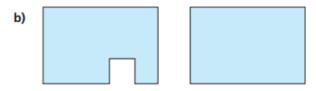
2) Eva draws this shape.





- a) To the left, draw a triangle with a smaller area
- b) To the right, draw a triangle with a greater area.
- 3) For each pair of shapes, tick the shape with the greater area.





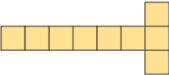


Counting squares

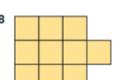


Ount the squares in each shape to find the area.

Α



The area is squares.



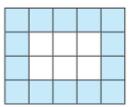
С

The area is squares.

The area is squares.

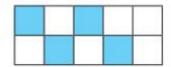
Which shape has the greatest area? _____

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



The area is squares.

Here is a kitchen tile.



a) What area of the tile is blue?

squares

b) What area of the tile is white?

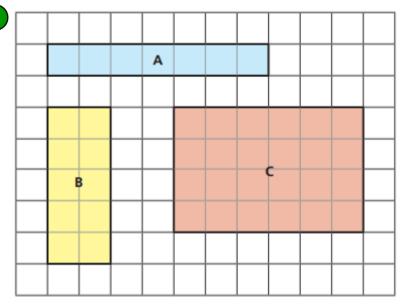
squares

c) What is the total area of the tile?

squares

Find the area of each rectangle.





squares

s C =

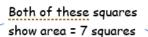
squares

Making shapes



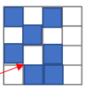
Draw a shape with the given area.

Remember to make your shapes rectilinear - a shape that has straight sides and right angles. Sides must be joined along a straight edge and not on a corner

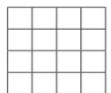


Correct, all squares are joined along a straight

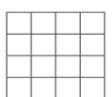
Incorrect, some squares are joined on a corner and not a straight edge.



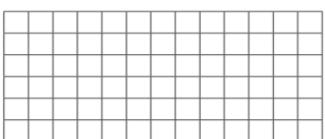
a) area = 7 squares



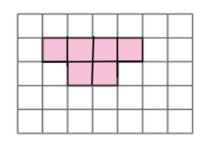
b) area = 13 squares



a) Draw two different shapes, each with an area of 8 squares.

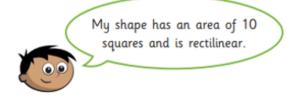


Shade more squares to make the area 11 squares.

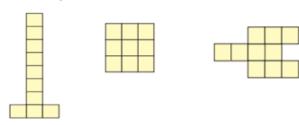




Amir has created a shape.



Tick the shapes that Amir could have made.



(5) a) Add squares to this shape to make it into a square.



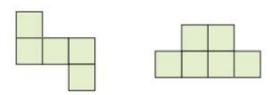
b) What is the area of the square you have made?



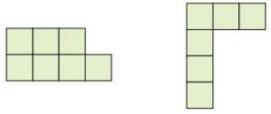
Comparing area



a) Tick the shape with the larger area.



b) Tick the shape with the smaller area.



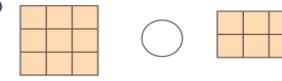
Remember to count the squares carefully to check

Write \langle , \rangle or $\overline{}$ to compare the area of the shape Remember the crocodile always eats the biggest number. Number

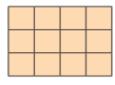




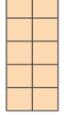
a)



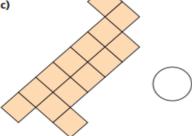
b)

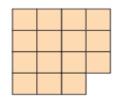




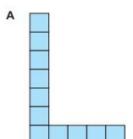


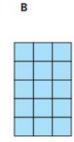






Mo draws these two shapes.







Shape B must have a smaller area than shape A because it is shorter and thinner than shape A.

Do you agree with Mo? _____ Explain your reasoning.



Day 5 - 29-01-21 - Word Problems.

Challenge 1

Dexter has taken a bite of the chocolate bar.



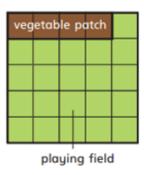
The chocolate bar was a rectangle.
Can you work out how many squares of chocolate there were to start with?

Challenge 2

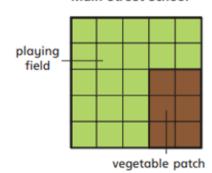
Here are plans of two school fields.

Each has a playing field and a vegetable patch.

High Street School



Main Street School

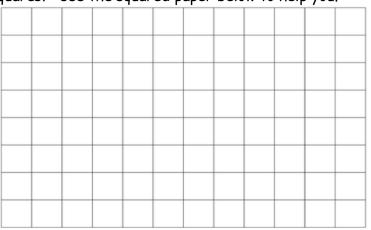


How many squares is the playing field at High Street school

How many squares is the playing field at Main Street School

The difference in area of the playing fields is squares

<u>Challenge 3</u> - How many rectangles can you draw with an area of 12 squares? Use the squared paper below to help you.



Challenge 4

Design a bedroom that has only rectangular furniture.

You need to include:

A bed made of 18 squares

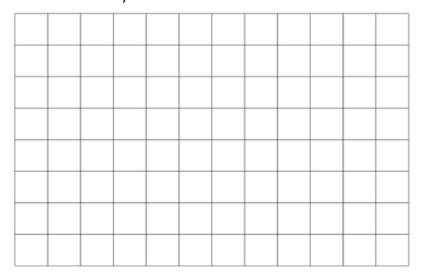
A rug made of 15 squares

A desk made of 12 squares

A wardrobe made of 8 squares

And a toy box made of 6 squares.

Colour and label your items.

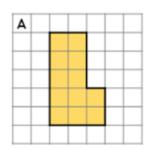


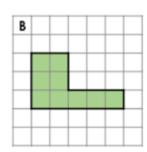
Week 4 Maths Assessment

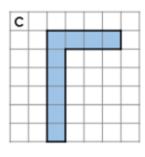
Each week we will be giving you a little assessment task to complete when you have finished your work on Friday. This is so your teacher knows how you feel about the learning you have done. It is important that you complete the task independently and answer the questions honestly. Your teacher needs to know if you are still struggling so that they can make sure you have the right support in future lessons. Your teacher would also like to know if you are enjoying the work and if you are finding it helpful. Make sure you email your teacher this page along with your work for today.

Question 1

Tick the two shapes below which have the same area





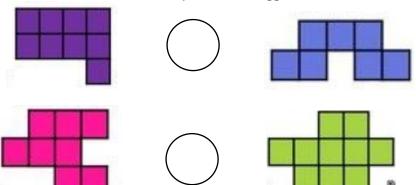


Question 2

Write \langle , \rangle or = to compare the area of the shape



Remember the crocodile always eats the biggest number.



Colour the box at the end of each statement to show how you feel about the learning.

Calaur it red if you do not agree with the statement Calaur it yellow if you agree with the statement but are not confident Calaur it green if you agree with the statement

I know what area is	
I can find the area of a shape by counting the squares	
I can make rectilinear shapes using squares	
I can campare the area of shapes by counting the squares.	
I can solve word problems involving area	

The things I have enjoyed most about the Maths learning this week are:

The things I struggled with this week are:

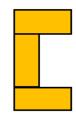
What is area?

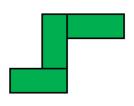
White Rose Maths

1) a) Using 4 sticky notes, make as many different rectilinear shapes as you can.

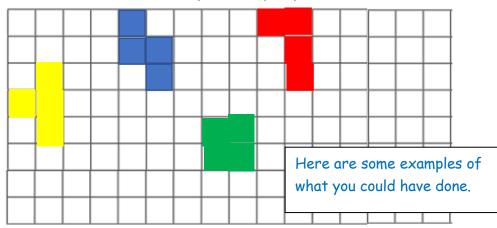
A rectilinear shape is a shape that has straight sides and right angles. It can look like rectangles joined together. Here are some examples using 3 sticky notes







Now you have a go using 4 sticky notes. How many different shapes can you make? Draw them in the grid below by colouring the squares in the same pattern as your post it notes.



b) All of the shapes that you have drawn in your grid have the same area. Explain how you know that this is correct.

Because each post it note has the same area. They are just being put in a different order.

Eva draws this shape.



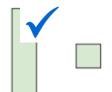




- a) To the left, draw a triangle with a smaller area
- b) To the right, draw a triangle with a greater area.

3) For each pair of shapes, tick the shape with the greater area.

















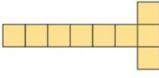


White Rose Maths

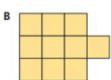
Counting squares

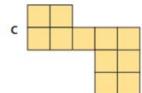
Count the squares in each shape to find the area.

A



The area is 9 squares.



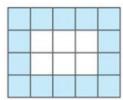


The area is 10 squares.

The area is 11 squares.

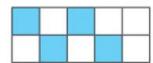
Which shape has the greatest area? _ Shape C _

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



The area is 14 squares.

Here is a kitchen tile.



a) What area of the tile is blue?

4 squares

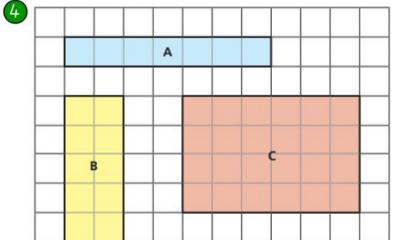
b) What area of the tile is white?

6 squares

c) What is the total area of the tile?

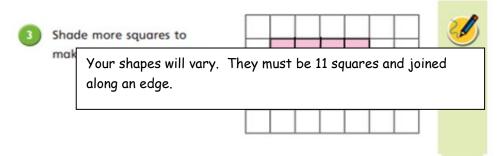
10 squares

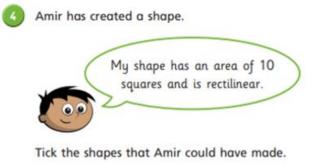
Find the area of each rectangle.

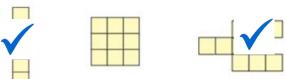


$$A = \begin{bmatrix} 7 \end{bmatrix}$$
 squares $B = \begin{bmatrix} 10 \end{bmatrix}$ squares $C = \begin{bmatrix} 24 \end{bmatrix}$ squares

Making shapes Draw a shape with the given area. Remember to make your shapes rectilinear - a shape that has straight sides and right angles. Sides must be joined along a straight edge and not on a corner Both of these squares show area = 7 squares Correct, all Incorrect, some squares are joined squares are joined on along a straight a corner and not a straight edge. a) area = 7 squares b) area = 13 squares Your shapes will vary. They must be 7 squares and joined along an edge. a) Draw two different shapes, each with an area of 8 squares. Your shapes will vary. They must be 8 squares and joined along an edge.











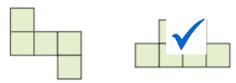
b) What is the area of the square you have made?

9 squares

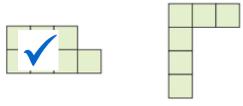
Comparing area



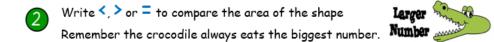




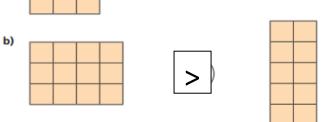
b) Tick the shape with the smaller area.

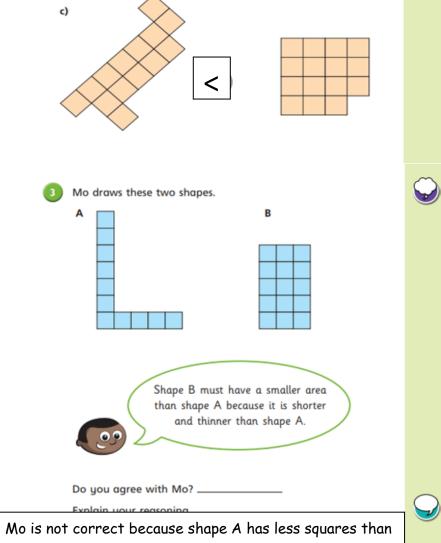


Remember to count the squares carefully to check







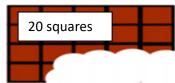


Mo is not correct because shape A has less squares than shape B and it is the space the shape takes up that is important not necessarily the shape itself

Day 5 - Answers

Challenge 1

Dexter has taken a bite of the chocolate



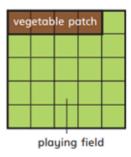
The chocolate bar was a rectangle. Can you work out how many squares of chocolate there were to start with?

Challenge 2

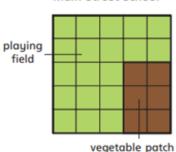
Here are plans of two school fields.

Each has a playing field and a vegetable patch.

High Street School



Main Street School



How many squares is the playing field at High Street school

21 squares

How many squares is the playing field at Main Street School

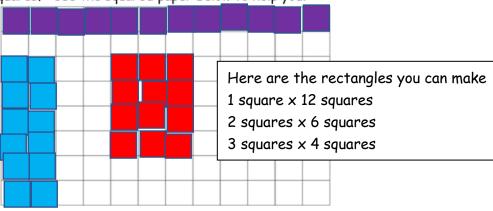
19 squares

The difference in area of the playing fields is

2 squares

 $\underline{\text{Challenge 3}}$ - How many rectangles can you draw with an area of

12 squares? Use the squared paper below to help you.



Challenge 4

Design a bedroom that has only rectangular furniture.

You need to include:

A bed made of 18 squares

A rug made of 15 squares

A desk made of 12 squares

A wardrobe made of 8 squares

And a toy box made of 6 squares.

Colour and label your items.

