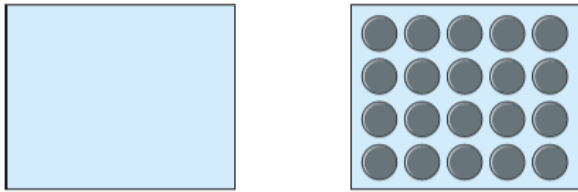


Y4 Maths Area - Monday

Watch the video and then complete the worksheet [Spr4.4.1 - What is area? on Vimeo](#)

Amir covers a rectangle with some counters.

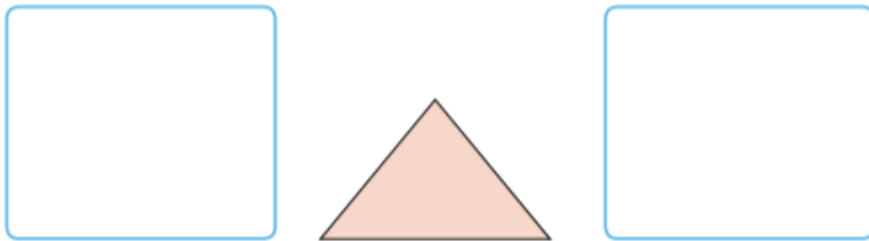


a) Amir thinks the area of the rectangle is exactly 20 counters.

Is Amir correct? _____

b) Explain why counters are not the best way to measure area.

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.



A longer object will always have a greater area than a shorter object.

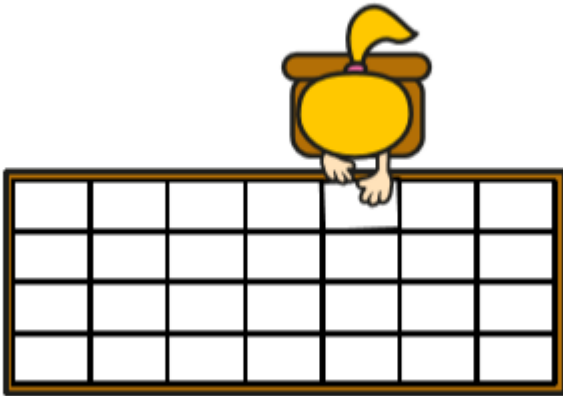
Do you agree with Teddy? _____

Draw a picture to support your answer.

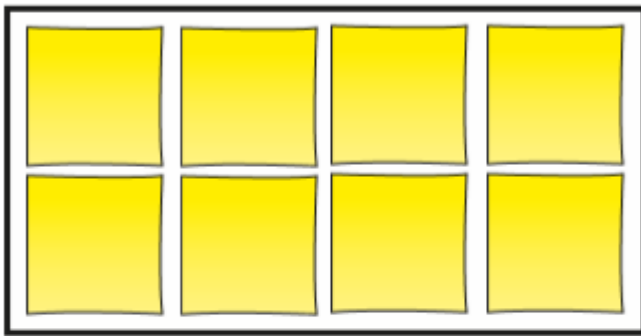
A large, empty rectangular box with a yellow border, intended for the student to draw a picture supporting their answer.

Eva is measuring the area of the tabletop.

She has covered the table with exactly 28 sheets of paper.



She covers one sheet of paper with sticky notes.



What is the area of the tabletop in sticky notes?

sticky notes

Order the shapes below from smallest to largest area. The green square is there as a guide for the sizes.

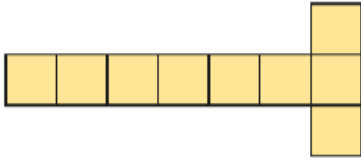


Y4 Maths Area - Tuesday

Watch the video and complete the sheet. <https://vimeo.com/500381471>

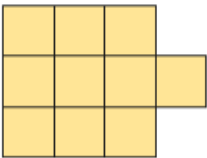
Count the squares in each shape to find the area.

A



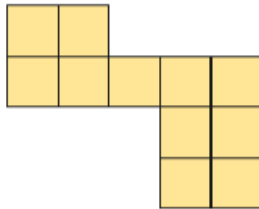
The area is squares.

B



The area is squares.

C



The area is squares.

Which shape has the greatest area? _____

Here is a kitchen tile.

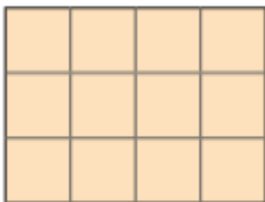


a) What area of the tile is blue? squares

b) What area of the tile is white? squares

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

Here is a rectangle.

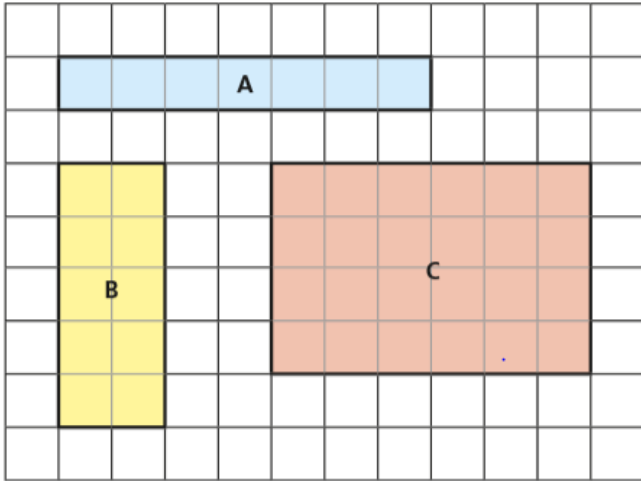


a) The rectangle has rows and columns.

b) What is the area of the rectangle? squares

c) How did you work out the area?

Find the area of each rectangle.

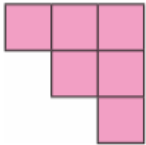


A = squares B = squares C = squares

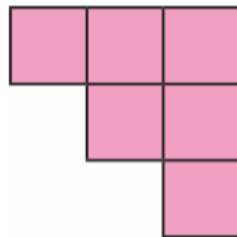
Nijah and Eva are making shapes.

They each use 6 squares.

Nijah's shape



Eva's shape

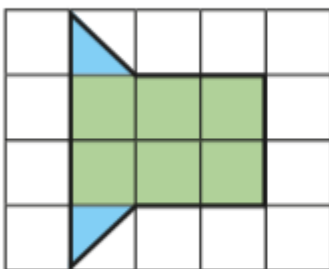


The area of Nijah's shape is equal to the area of Eva's shape.

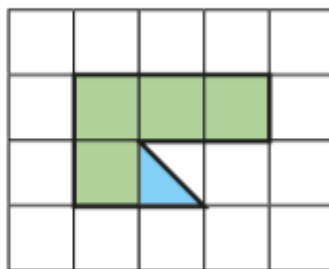
Is this true or false? _____

How do you know?

What is the area of each shape?



area = squares

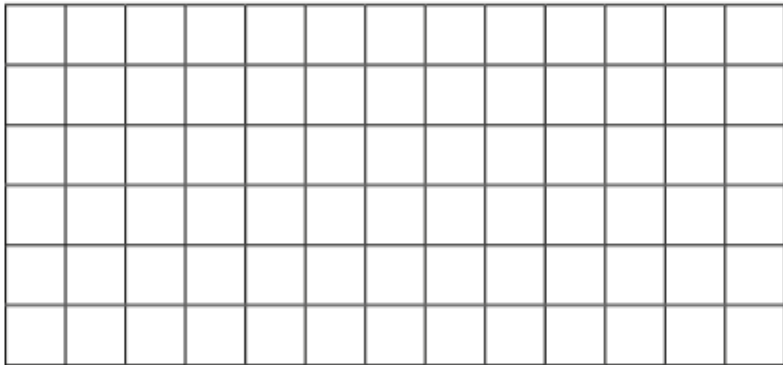


area = squares

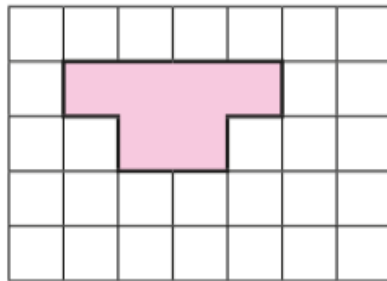
Y4 Maths Area - Wednesday

Watch the video and complete the sheet [Spr4.4.3 - Making shapes on Vimeo](#)

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



Shade more squares to make the area 11 squares.

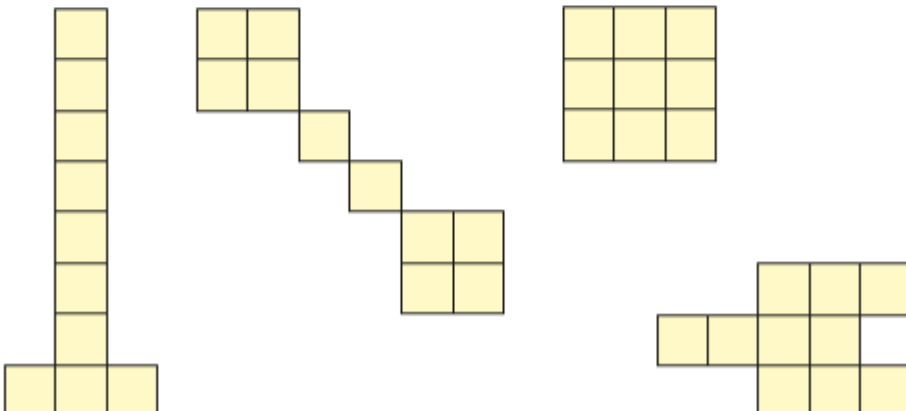


Amir has created a shape.

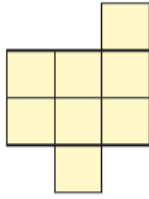


My shape has an area of 10 squares and is rectilinear.

Tick the shapes that Amir could have made.



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



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

squares

c) How could you make a larger square?

How many more squares do you need to add?

Show your working.



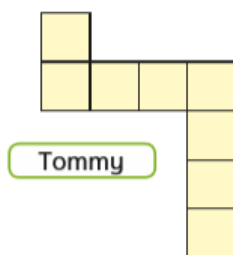
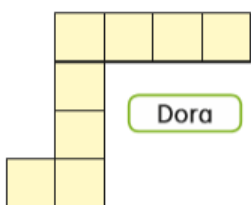
Use six square sticky notes or square shapes.



Make as many different rectilinear shapes with the squares as you can.

Draw some of your shapes.

Dora and Tommy have drawn rectilinear shapes.



Tommy says he has made a different shape with the same area.

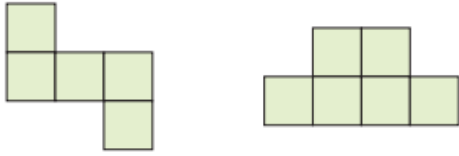
Do you agree with Tommy? _____

Explain your answer.

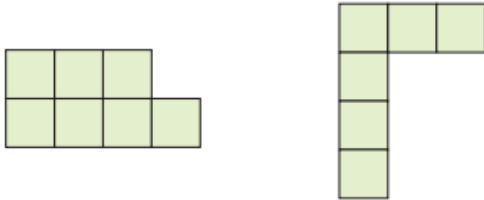
Y4 Maths Area - Thursday

Watch the video and complete the sheet [Spr4.4.4 - Comparing area on Vimeo](#)

a) Tick the shape with the larger area.

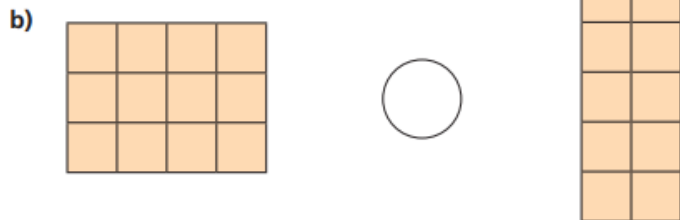
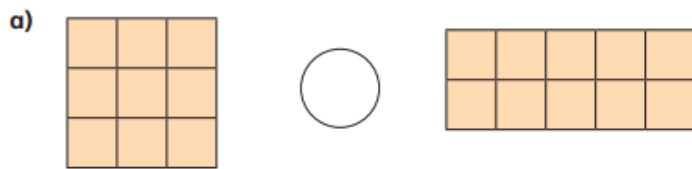


b) Tick the shape with the smaller area.

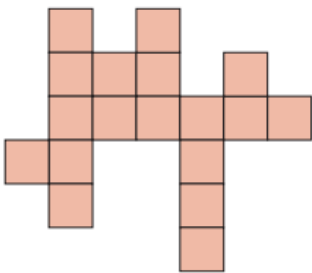


How do you know?

Write $<$, $>$ or $=$ to compare the area of the shapes.

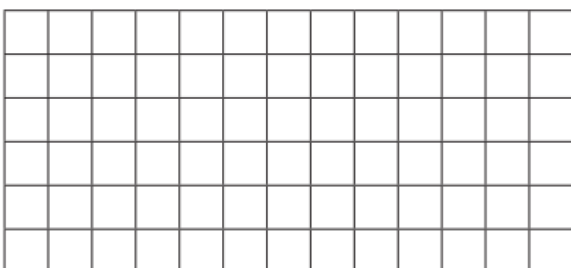


Here is a shape.



a) What is the area of this shape? squares

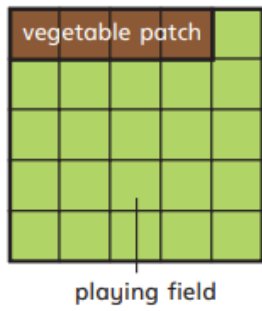
b) Draw a different shape with an area that is 2 squares larger.



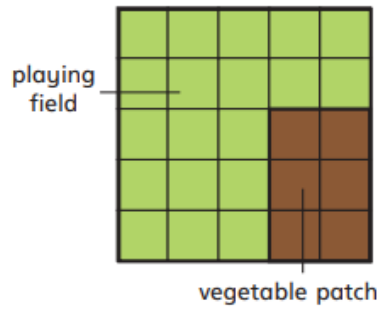
Here are plans of two school fields.

Each has a playing field and a vegetable patch.

High Street School



Main Street School



a) What is the difference in the area of the playing fields?

The difference in area of the playing fields is squares.

b) What is the difference in the area of the vegetable patches?

The difference in area of the vegetable patches is squares.

c) High Street School doubles the size of its vegetable patch.

Main Road School adds 1 square to its vegetable patch.

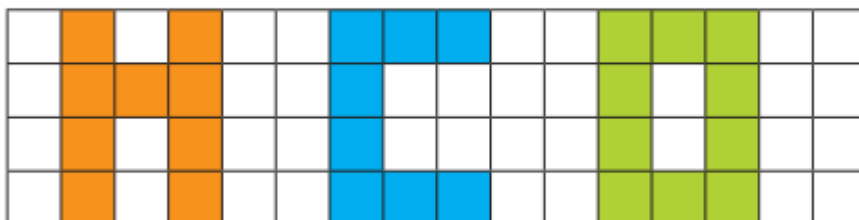
Which school now has the larger vegetable patch?

Show your working.

_____ School now has the larger vegetable patch.

Put these letter shapes in order of size.

Start with the shape with the smallest area.

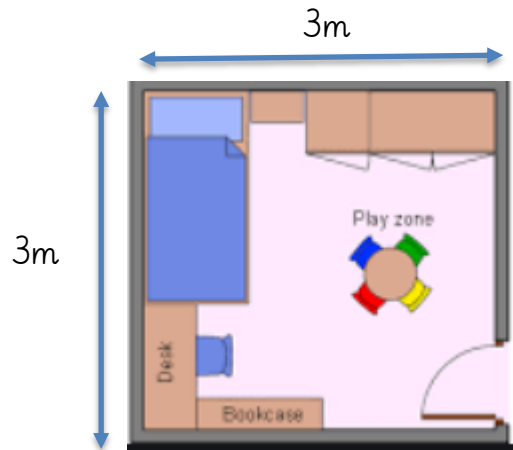


Y4 Maths Area – Friday

Challenge Day

1. Calculate the area of an object or room in your house. You could measure it with a tape measure and multiply the length and width or you could use post it notes or pieces of paper like on the sheets.

E.g. Your bedroom



$$3m \times 3m = 9m^2$$

2. You will need 2 sheets of A4 paper.

Tear up an A4 sheet of paper into six pieces. Find the area of each piece and record it below:

_____ cm^2 _____ cm^2 _____ cm^2
_____ cm^2 _____ cm^2 _____ cm^2

Total area: _____ cm^2

Now find the area of a second A4 sheet of paper. Record the area. Area: _____ cm^2

What do you notice? Write a mathematical sentence (using words or other symbols) about your observation below.

Is there a difference between the torn up piece and the piece you didn't tear?