

Can I make shapes?

Year 4 Monday 1st February 2021

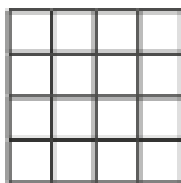
Watch the video

- <https://vimeo.com/500864228>
- Now complete the questions on the next slides

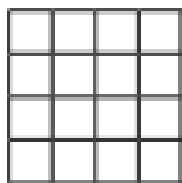
Making shapes

1 Draw a shape with the given area.

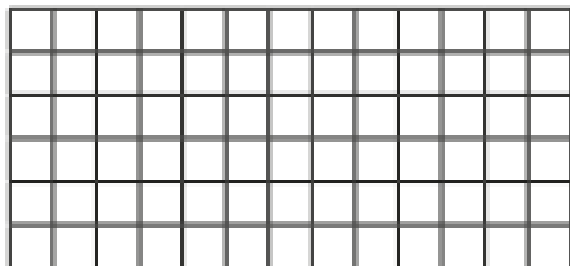
a) area = 7 squares



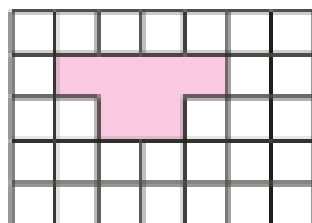
b) area = 13 squares



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



3 Shade more squares to make the area 11 squares.

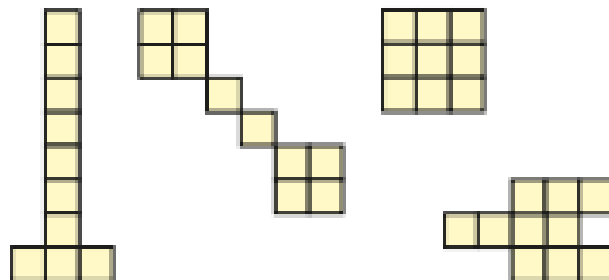


4 Amir has created a shape.



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

Tick the shapes that Amir could have made.



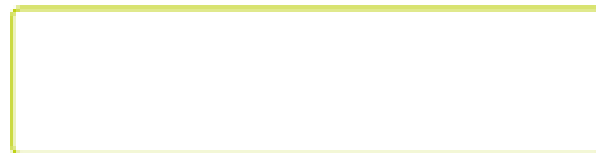
5



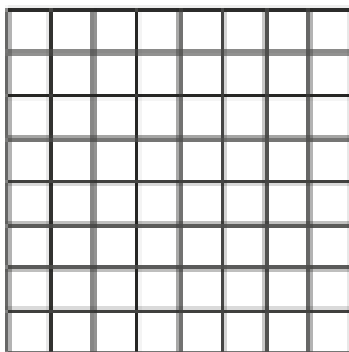
I cannot make a large square using an odd number of smaller squares.

Do you agree with Whitney? _____

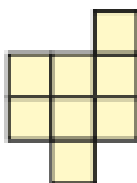
Draw a picture to support your answer.



- 6 Draw two different rectangles, each with an area of 12 squares.



- 7 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.



- 8 Dora and Tommy have drawn rectilinear shapes.



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

Do you agree with Tommy? _____

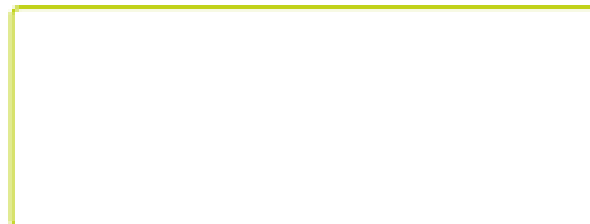
Explain your answer.

- 9 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.

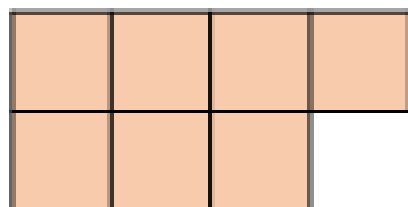


Compare answers with a partner.

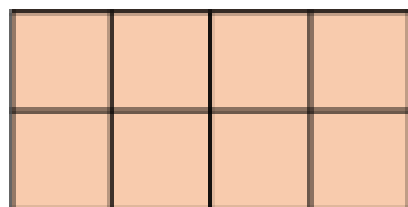
True or False ?

Making shapes

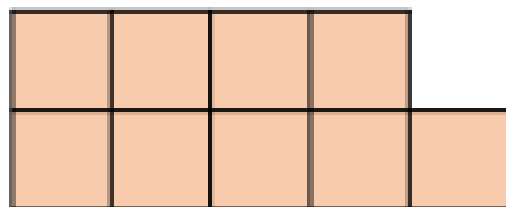
I cannot make a rectangle from an odd number of squares.



7 squares



8 squares



9 squares

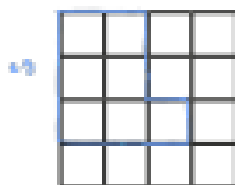
ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

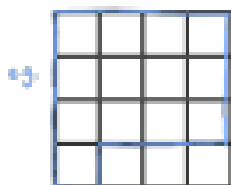
Making shapes

- 1 Draw a shape with the given area.

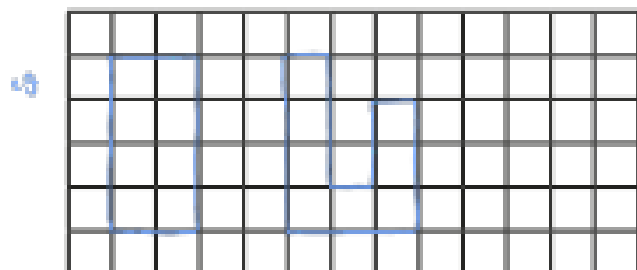
a) area = 7 squares



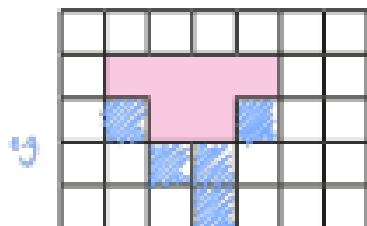
b) area = 13 squares



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



- 3 Shade more squares to make the area 11 squares.

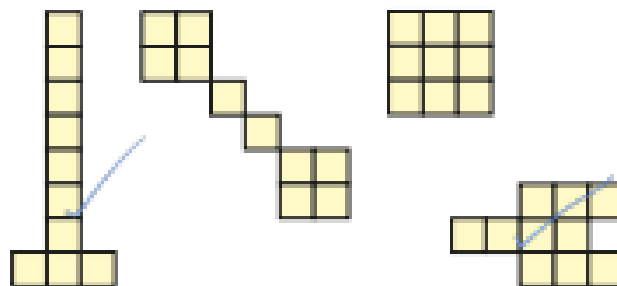


- 4 Amir has created a shape.



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

Tick the shapes that Amir could have made.



- 5

I cannot make a large square using an odd number of smaller squares.

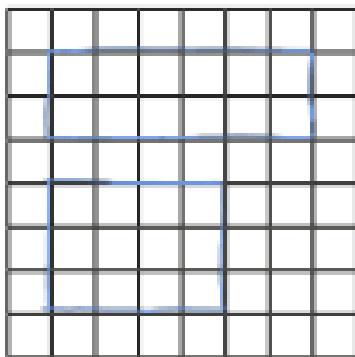


Do you agree with Whitney? no

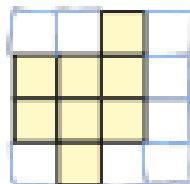
Draw a picture to support your answer.



- 6 Draw two different rectangles, each with an area of 12 squares.



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



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

16 squares

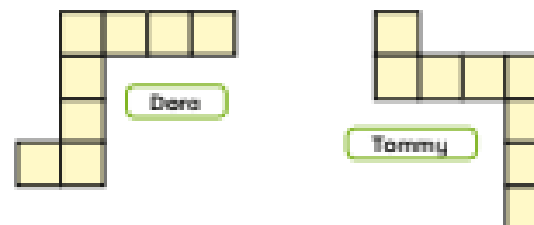
- c) How could you make a larger square?

How many more squares do you need to add?

Show your working.

9

- 8 Dora and Tammy have drawn rectilinear shapes.



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

Do you agree with Tammy? no

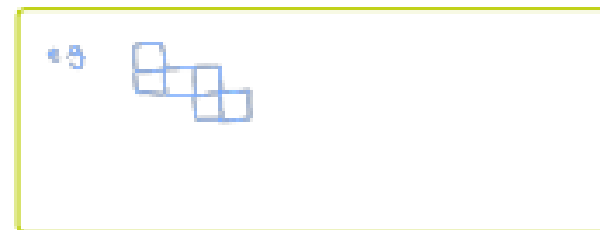
Explain your answer.

- 9 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.

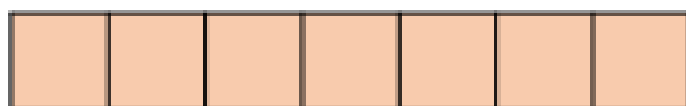


Compare answers with a partner.

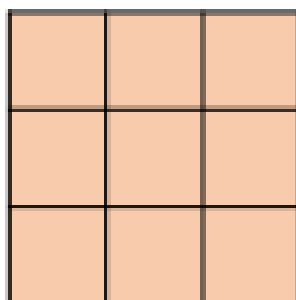


False

By rearranging the squares, I can make a rectangle from any number of squares.



7 squares



9 squares