

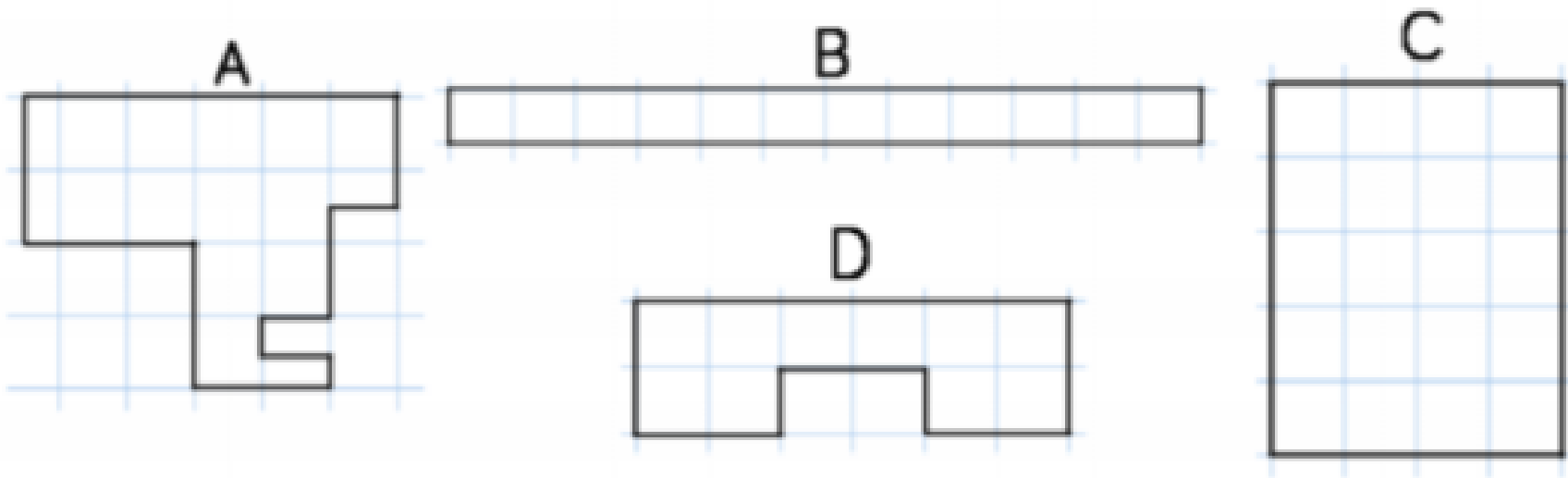
LO: Find the area of  
rectilinear shapes  
by counting squares.

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# Recap

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Put the shapes in order from largest to smallest area.

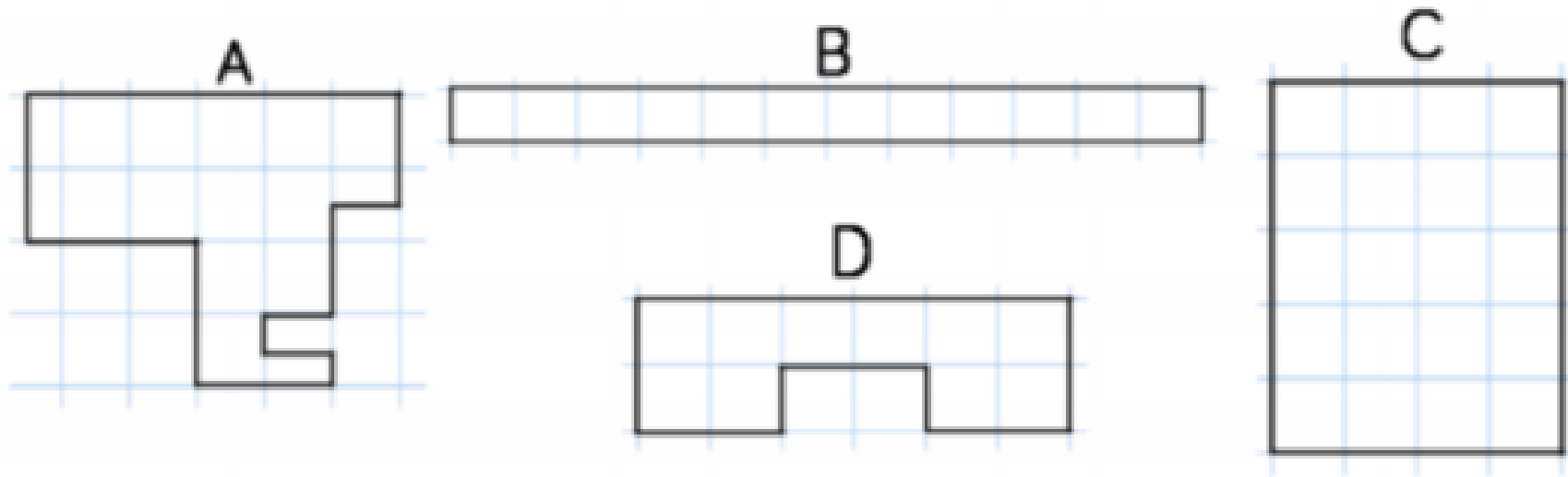


*Answer*

## Recap

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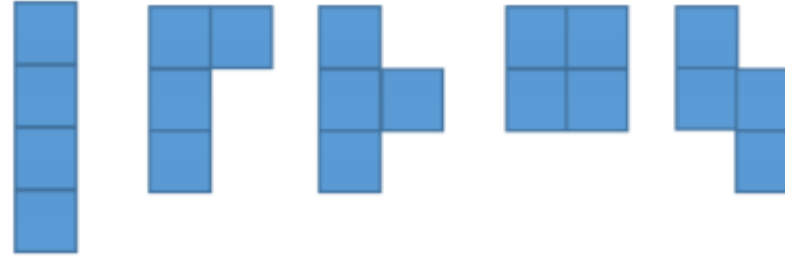
Put the shapes in order from largest to smallest area.



C = 20 squares, A = 14 squares, B = 12 squares, D = 10 squares

## TASK 1

- Ron has 4 squares.  
He systematically makes rectilinear shapes.



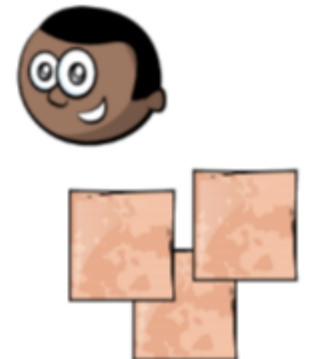
Use 5 squares to make rectilinear shapes.  
Can you work systematically?

## TASK 2

- Use squared paper to draw 4 different rectilinear shapes with an area of 12 squares.  
Compare your shapes to a partner.  
Are they the same?  
Are they different?

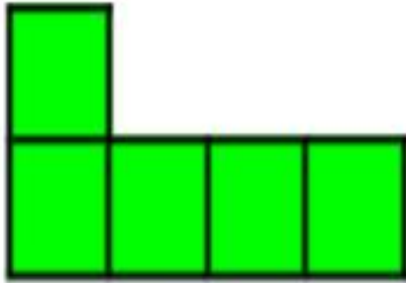
## TASK 3

- Mo is building a patio made of 20 square slabs.  
What could the patio look like?  
Mo is using 6 black square slabs in his design.  
None of them are touching each other.  
Where could they be in the designs you have made?



## TASK 4

Here is a rectilinear shape.

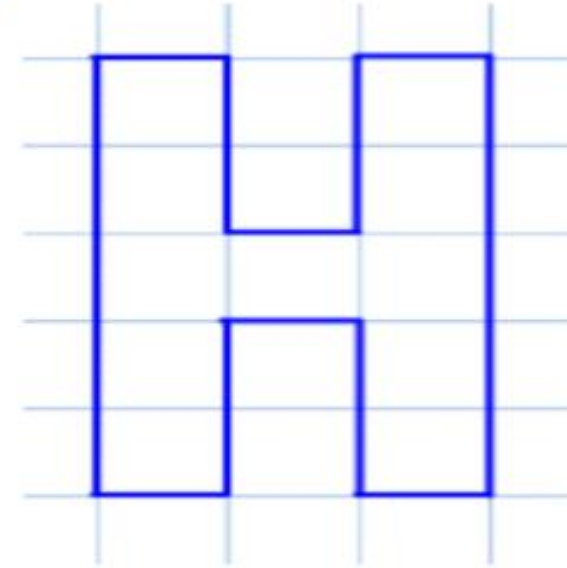


Using 7 more squares, can you make a rectangle?

Can you find more than one way?

## TASK 5

Can you make some capital letters on squared paper using less than 20 squares?



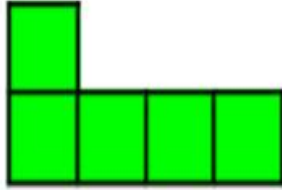
Make a word from some and count the total area of the letters.

Which letters have a line of symmetry?

What is the area of half of each letter?

## TASK 4

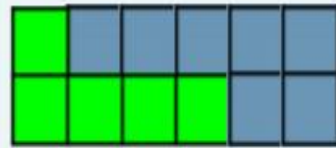
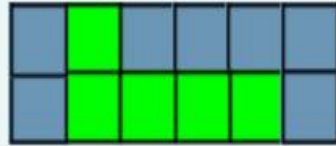
Here is a rectilinear shape.



Using 7 more squares, can you make a rectangle?

Can you find more than one way?

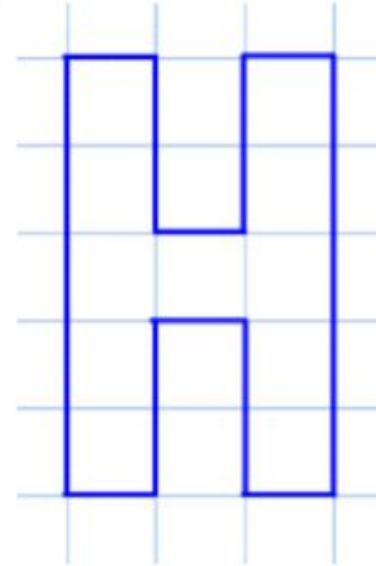
Possible answers include:



## TASK 5

*Answer*

Can you make some capital letters on squared paper using less than 20 squares?



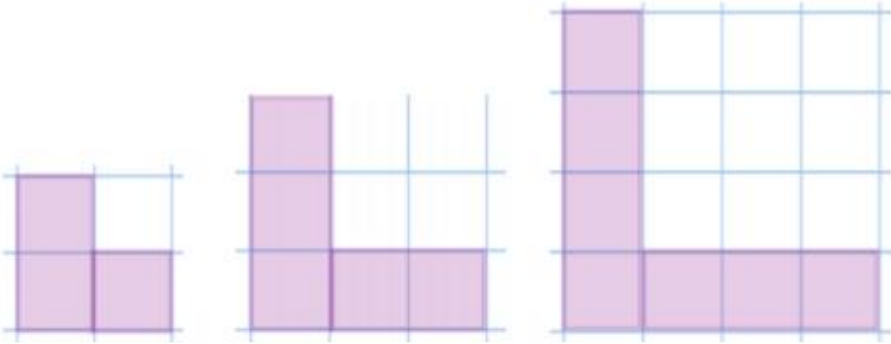
Make a word from some and count the total area of the letters.

Which letters have a line of symmetry?

What is the area of half of each letter?

Most letters can be made. They could be drawn on large squared paper or made with square tiles.

## TASK 6



Look at the shapes. Can you spot the pattern and explain how the area is changing each time?

Draw the next shape. What is its area?

Can you predict what the area of the 6<sup>th</sup> shape would be?

Can you spot any patterns in your answers?

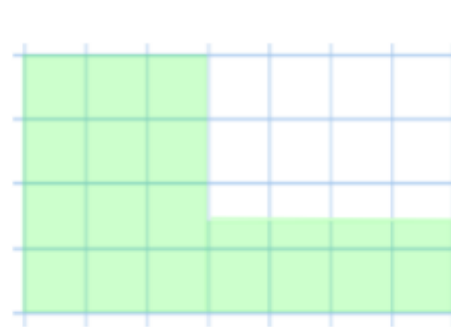
## TASK 7

Shape C has been deleted.

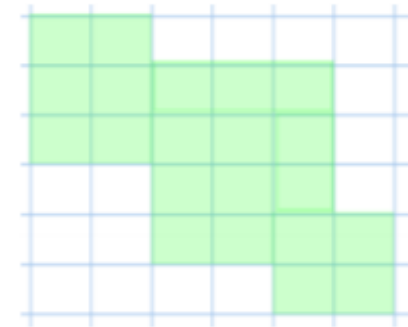
Area C > Area B

Area C < Area D

Can you draw what shape C could look like?



B



D

Shape A is missing too.

- It has the smallest area.
- It is symmetrical.

Can you draw what it could look like?



# TASK 6



Look at the shapes. Can you spot the pattern and explain how the area is changing each time?

Draw the next shape. What is its area?

Can you predict what the area of the 6<sup>th</sup> shape would be?

Can you spot any patterns in your answers?

The area increases by 2 each time.

The next shape will have an area of 9.

The 6<sup>th</sup> shape will have an area of 13.

The answers are all odd numbers and increase by 2 each time.

# TASK 7

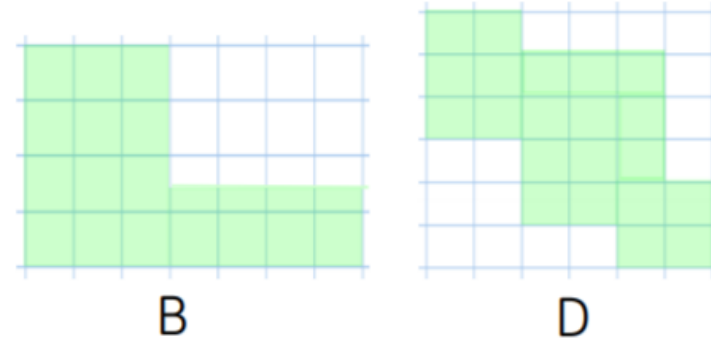
Answer

Shape C has been deleted.

Area C > Area B

Area C < Area D

Can you draw what shape C could look like?



Shape A is missing too.

- It has the smallest area.
- It is symmetrical.

Can you draw what it could look like?

Shape B has an area of 18 squares.

Shape D has an area of 21 squares.

So Shape C can be any shape that has an area between 18 and 21 squares.

Shape A must have area less than 18 squares, but can be any symmetrical design e.g. a 4 by 4 square.