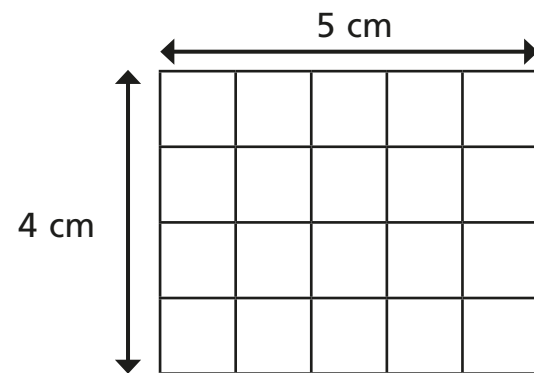


Shapes – same area

- 1 Use the diagram to help you complete the sentences.



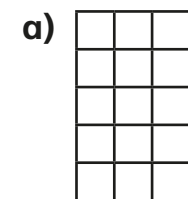
The length of the rectangle is 5 cm.

The width of the rectangle is 4 cm.

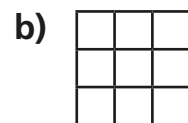
The total number of squares in the rectangle is 20

The area of the rectangle is 20 cm²

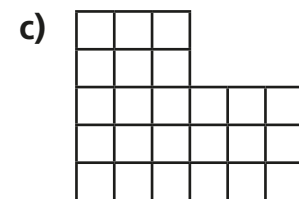
- 2 Work out the areas of the shapes. Each square represents 1 cm²



15 cm²



9 cm²

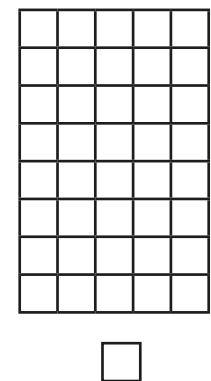
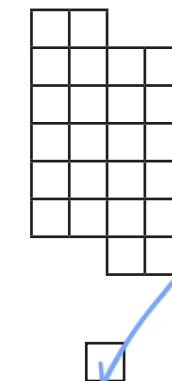
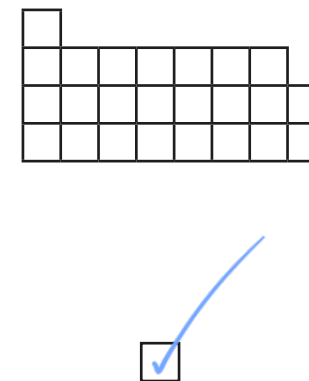
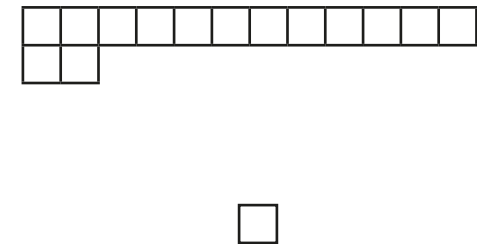
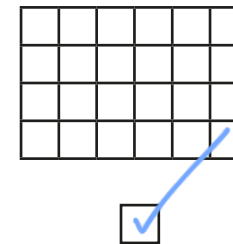


24 cm²

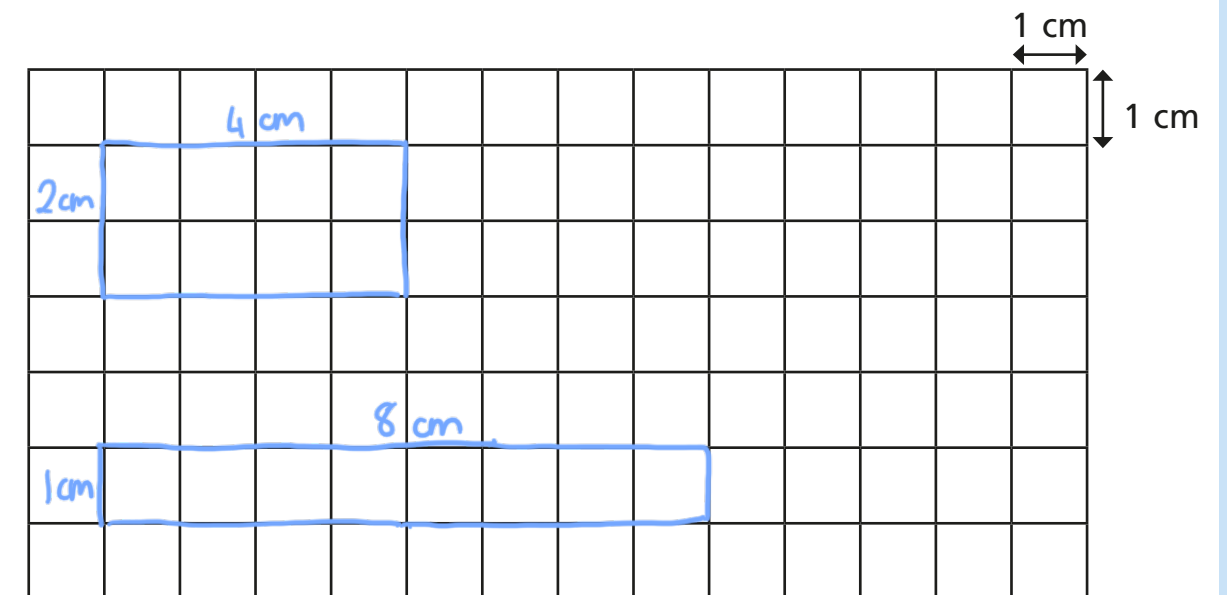
What do you notice?



- 3 Tick the shapes that have an area of 24 cm². Each square represents 1 cm²



- 4 a) Draw two different rectangles that have an area of 8 cm²
Label the side lengths of your rectangles.



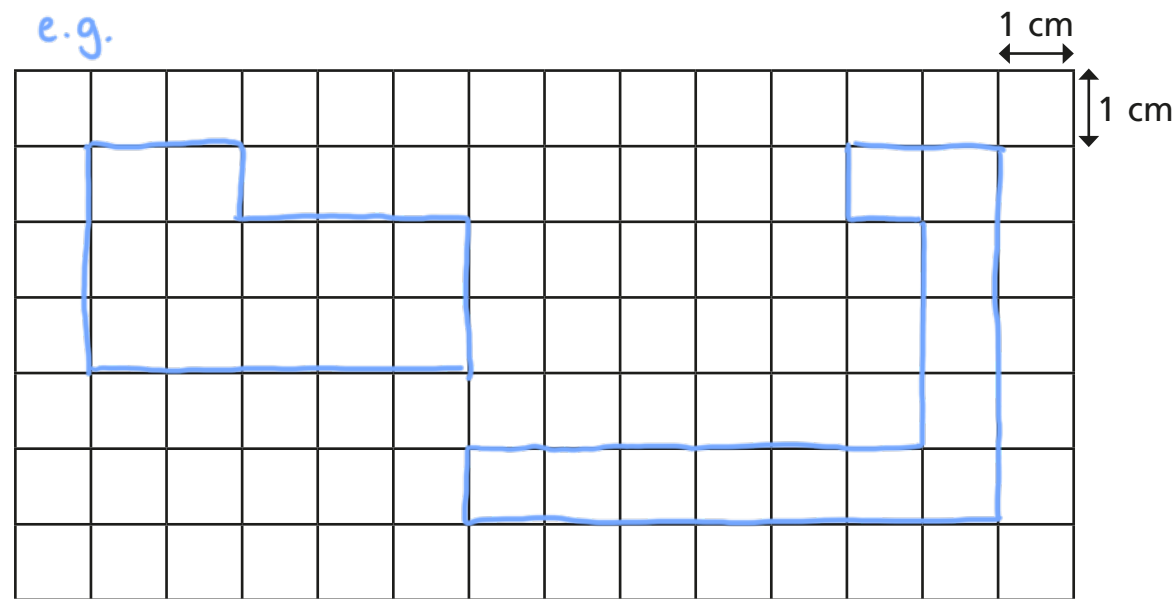
- b) Write the factors of 8 1, 2, 4, 8

What do you notice? Talk about it with a partner.



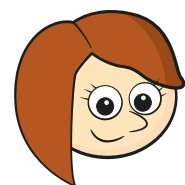
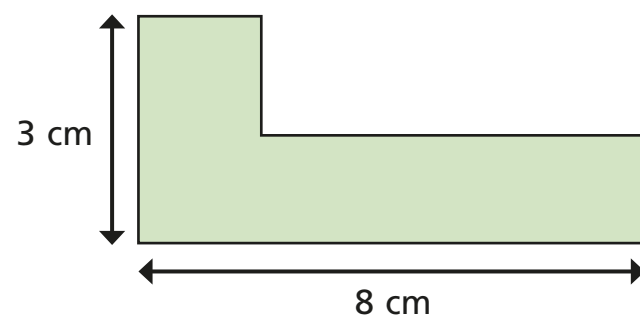
- 5 Draw two different rectilinear shapes that have an area of 12 cm^2

e.g.



Compare shapes with a partner.

- 6 Rosie is finding the area of this shape.



To find the area of the shape, you can multiply 3 by 8, so the area must be 24 cm^2

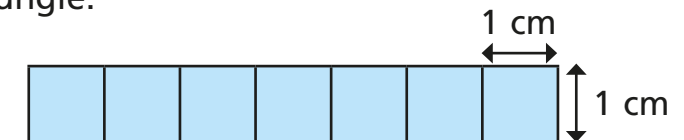
Do you agree with Rosie? No

Explain your answer.

It is not a rectangle.



- 7 Here is a rectangle.

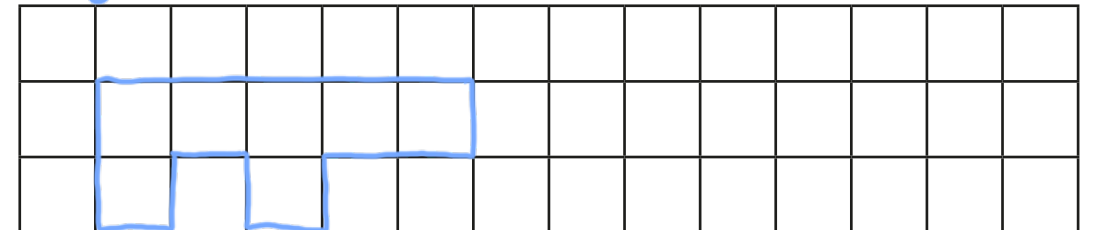


- a) Work out the area of the rectangle.

area = 7 cm^2

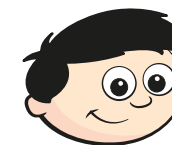
- b) Draw a different rectilinear shape that has the same area.

e.g.



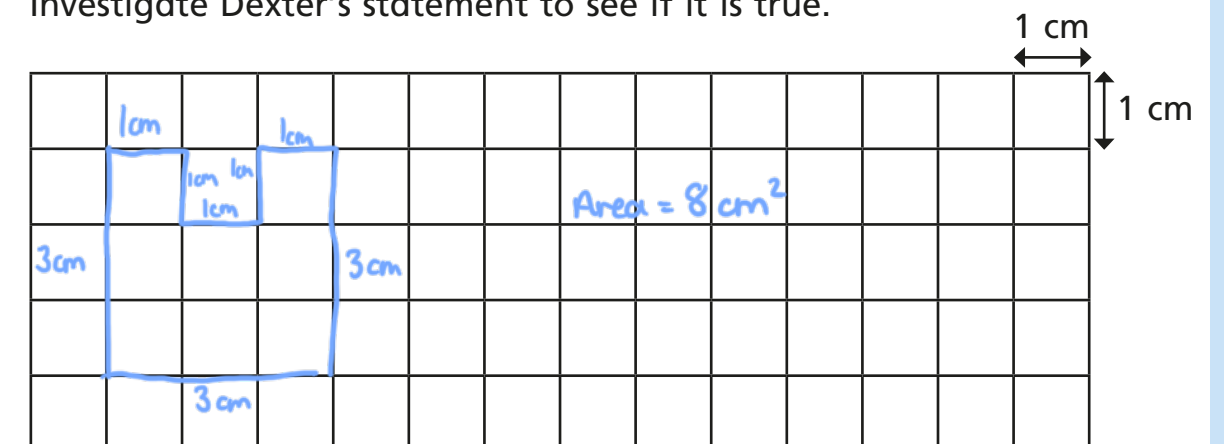
Compare answers with a partner.

- 8



It is impossible to have a rectilinear shape with an even area if all its sides are odd numbers.

Investigate Dexter's statement to see if it is true.



Compare your findings with a partner.

