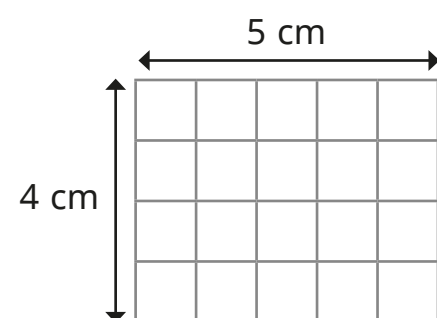# Shapes – same area

1 Use the diagram to help you complete the sentences.

5 cm

4 cm
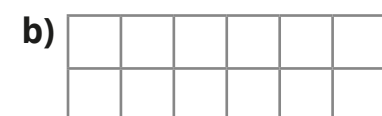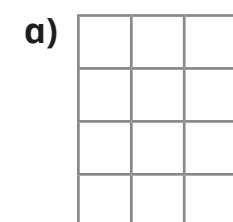
The length of the rectangle is ☐ cm.

The width of the rectangle is ☐ cm.

The total number of squares in the rectangle is ☐

The area of the rectangle is ☐ cm²

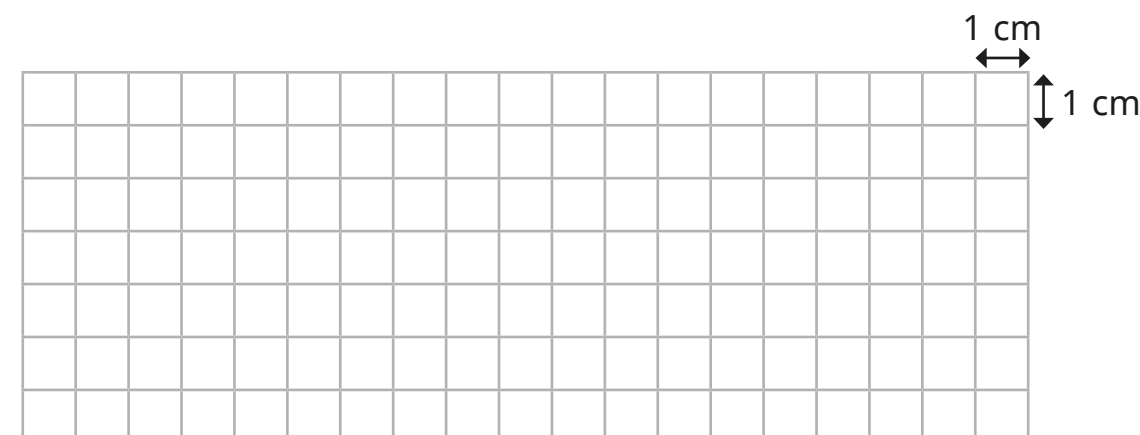**2** Work out the areas of the shapes.

Each square represents 1 cm²

a)

b)

☐ cm²   ☐ cm²

What do you notice?

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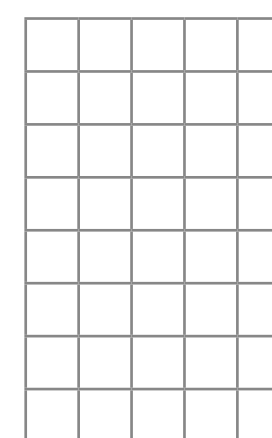
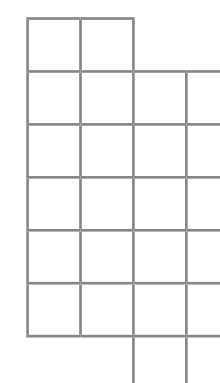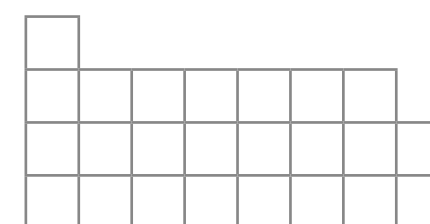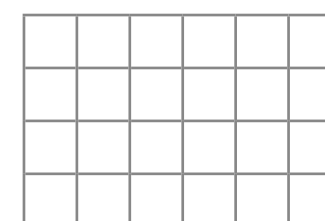Label the side lengths of your rectangles.

1 cm

1 cm

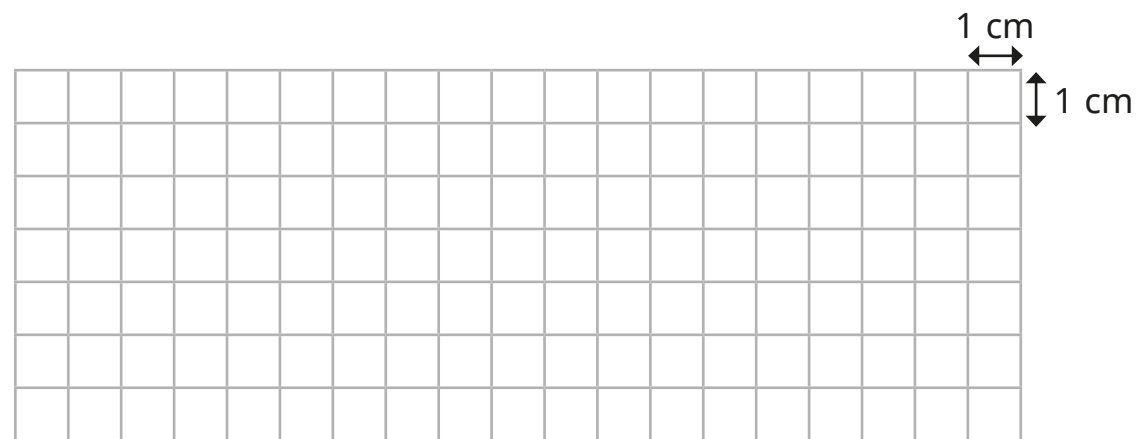**b)** Write the factors of 8 _____

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

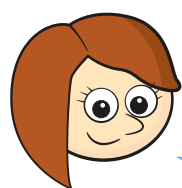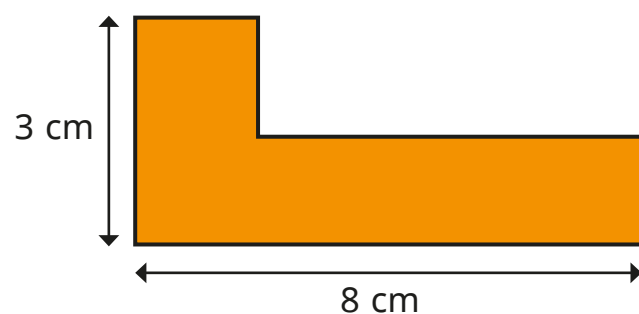**4** Tick the shapes that have an area of 24 cm²

Each square represents 1 cm²

5 Draw two different rectilinear shapes that have an area of 12 cm²

1 cm ↔
1 cm ↕

Compare shapes with a partner.
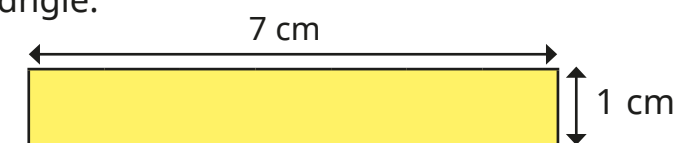
6 Rosie is finding the area of this shape.

3 cm
8 cm

To find the area of the shape, I can multiply 3 by 8, so the area must be 24 cm²
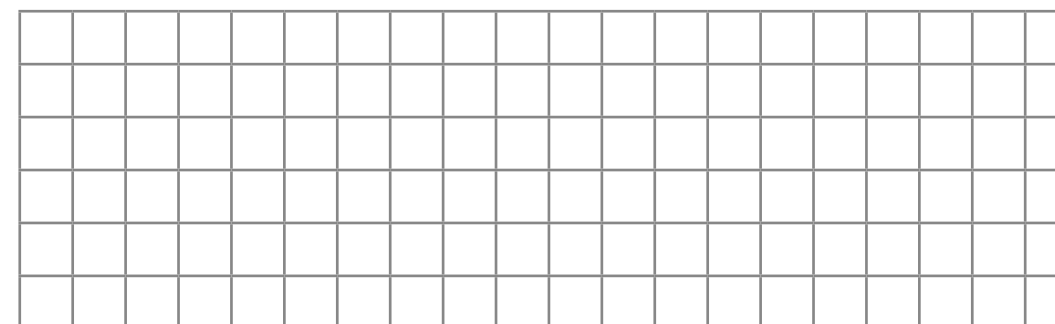
Do you agree with Rosie? _____

Explain your answer.

_____

_____

7 Here is a rectangle.

7 cm
1 cm

a) Work out the area of the rectangle. ☐ cm²

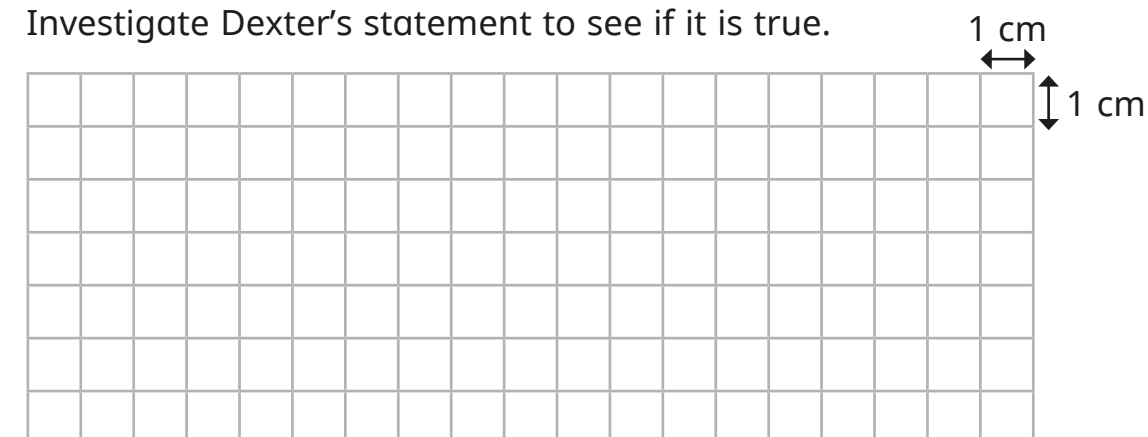b) Draw a different rectilinear shape that has the same area.

Compare answers with a partner.

8 Dexter is investigating area.

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.

1 cm ↔
1 cm ↕

Compare your findings with a partner's.