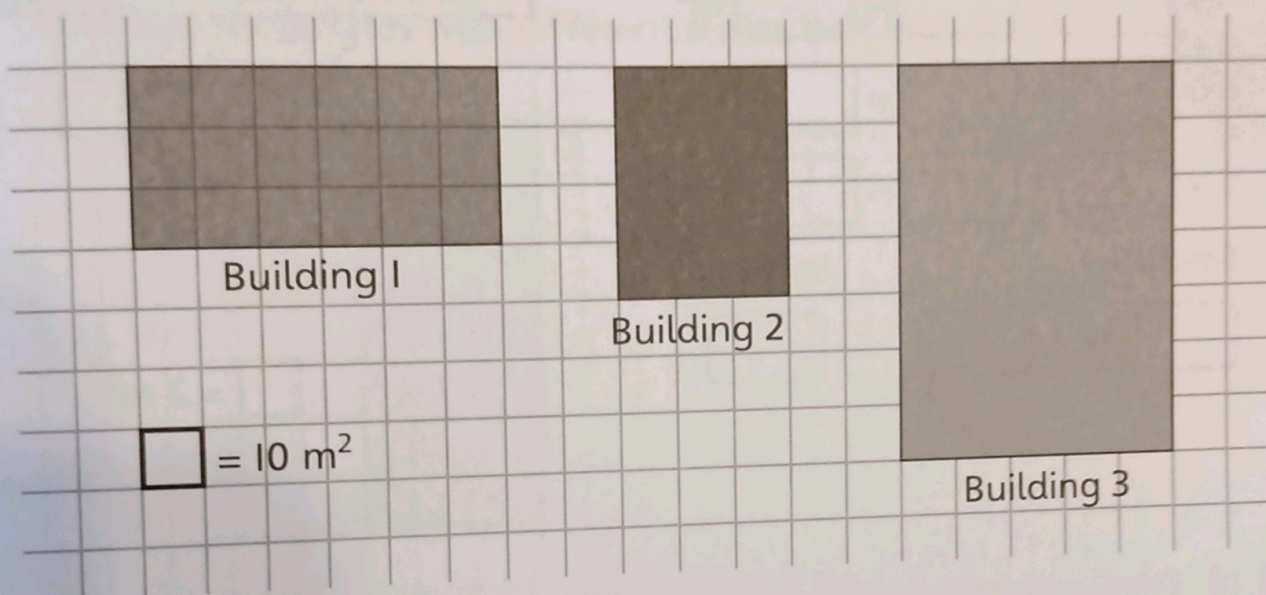


Calculating area I

- I** This map shows the location of three top secret buildings.
They are all rectangles and are drawn to the same scale.

Complete the calculations to show the actual area of each building.



a) Building 1

The area of the building on the map is made up of squares.

Each square is worth square metres.

squares $\times$ $\text{m}^2 =$ m^2

b) Building 2

squares $\times$ $\text{m}^2 =$ m^2

c) Building 3

squares $\times$ $\text{m}^2 =$ m^2

- 2 These rectangles all have different scales.

Calculate the areas and then order the shapes from smallest to largest area.

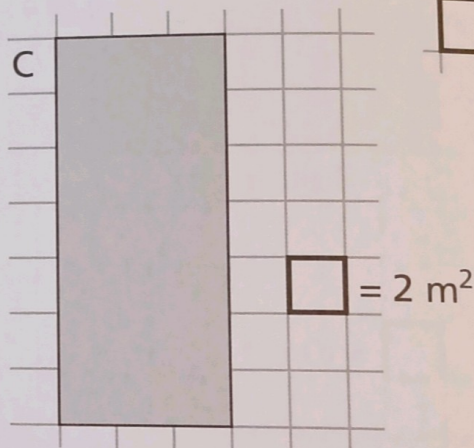
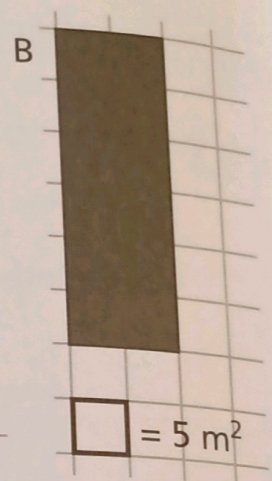
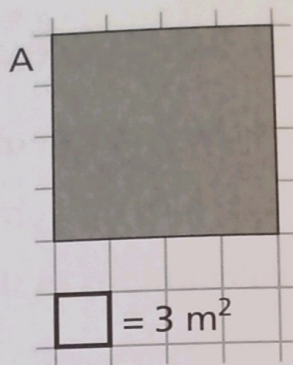
$$A = \boxed{} \times \boxed{} = \boxed{} \text{ m}^2$$

$$B = \boxed{} \times \boxed{} = \boxed{} \text{ m}^2$$

$$C = \boxed{} \times \boxed{} = \boxed{} \text{ m}^2$$

Smallest

Largest

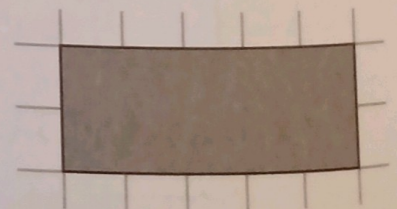


- 3 a) Draw a rectangle with an area of 8 squares.
b) Complete the table based on your drawing.

If 1 square is equal to ...	the actual area is ...
1 cm ²	cm ²
1 m ²	
4 cm ²	
	72 m ²
	200 cm ²



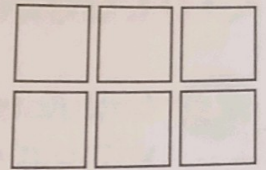
- 4 This rectangle has an area of 90 cm². 
Explain how you know what each square is worth.



- 5 A small mat has an area of 100 cm^2 .

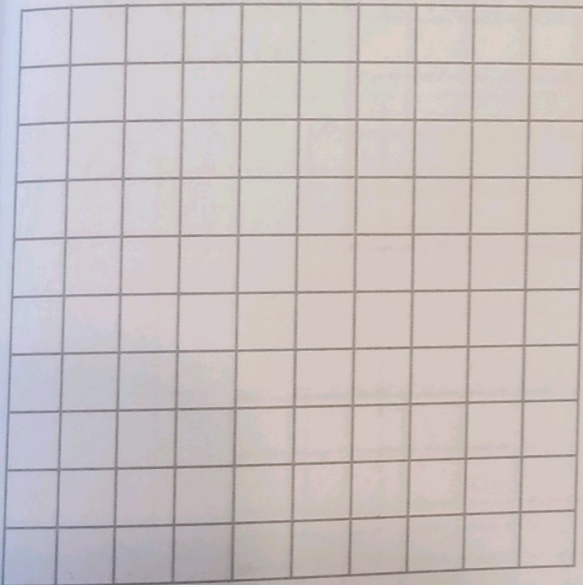
Reena takes 6 mats and makes a rectangle out of them.

What is the area of the rectangle? cm^2 .

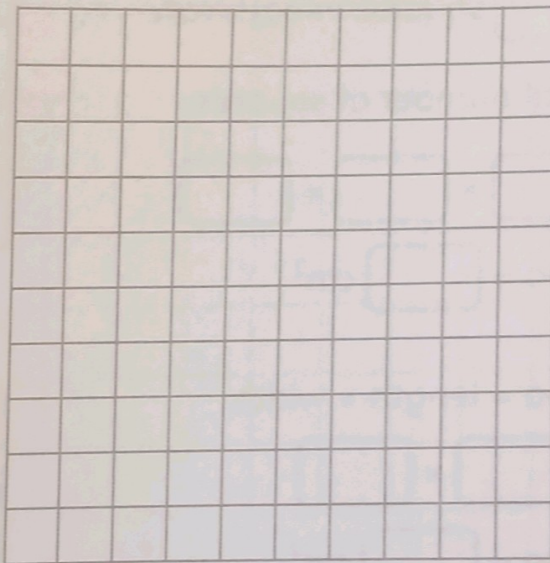


- 6 Draw two rectangles with different scales that both have an area of 80 m^2 .

CHALLENGE



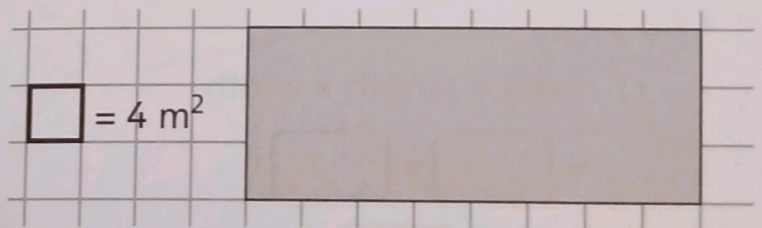
= 2 m^2



= 4 m^2

Reflect

This is a scale drawing of a room.



The actual area of the room in real life is _____

I know this because _____