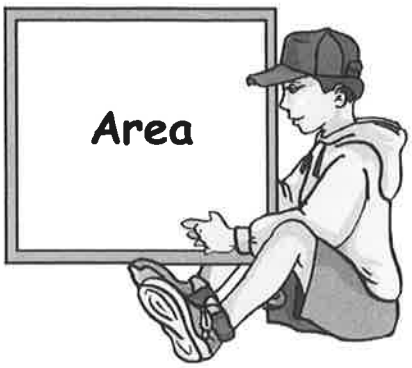
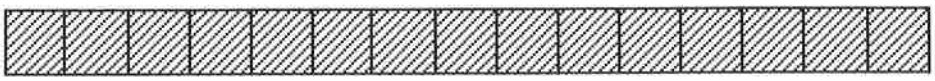
CHAPTER 13b

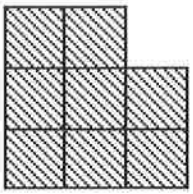


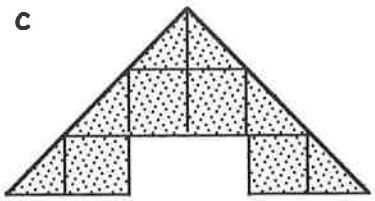
Exercise 1

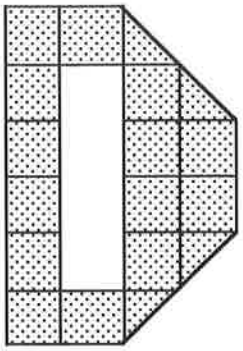
= 1 cm^2

1. Write down the area of these shapes, in cm^2 :-

a 

b 

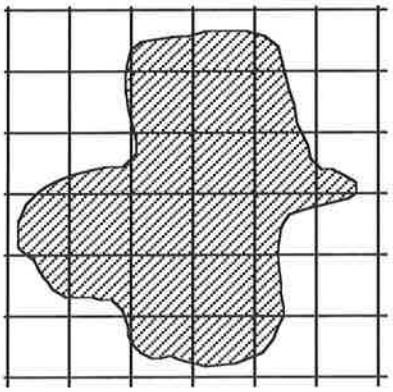
c 

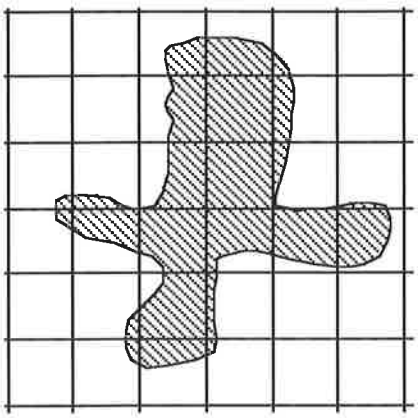
d 

2. Estimate the **areas** of the two shapes **below** as follows :-

If **more** than $\frac{1}{2}$ a box is covered —> **count it as 1 cm^2**

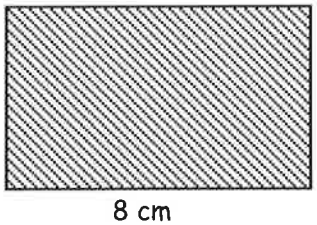
If **less** than $\frac{1}{2}$ a box is covered —> do **not** count it at all.

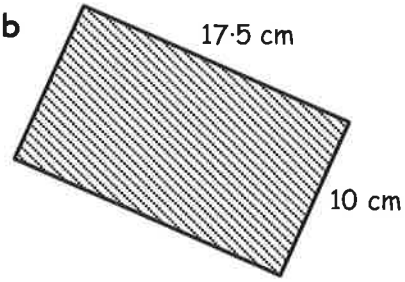
a 

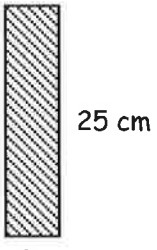
b 

Exercise 2

1. Calculate the area, in cm^2, of these rectangles, using the rule "***A = L x B***".

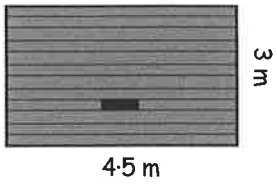
a 

b 

c 

2. Sam decides to paint the fire station's **double** doors.

Each rectangular door is 4·5 m by 3 m.



a Calculate the **area** covered by **both** doors.

b A litre of metal paint covers 13·5 m^2.
How many 1 litre tins will be needed for one coat of paint ?

c If each tin costs £20, what's the cost of giving the doors 3 coats ?

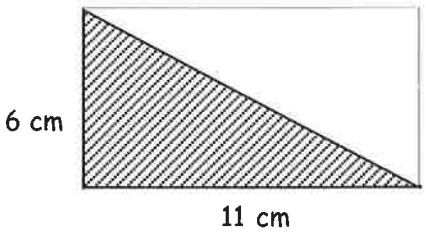
Exercise 3

1. For each of these triangles :-

(i) Calculate the area of the surrounding rectangle.

(ii) Use your answer to work out the area of the triangle.

a



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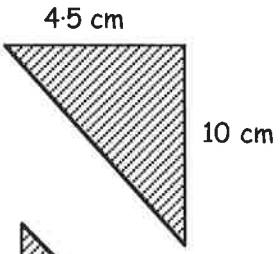

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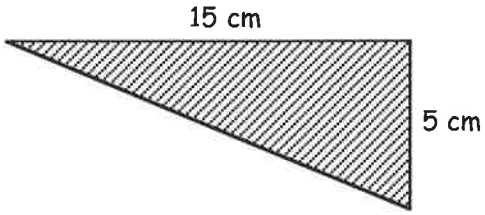

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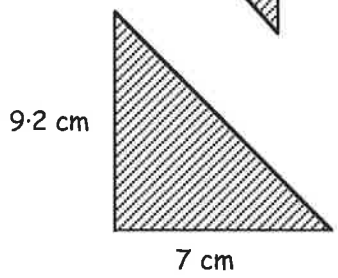
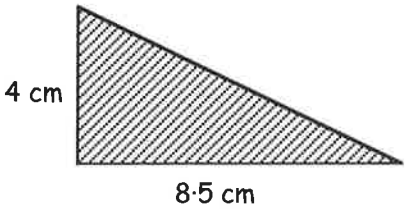


e



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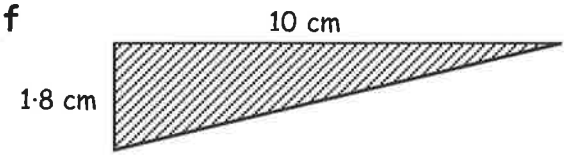
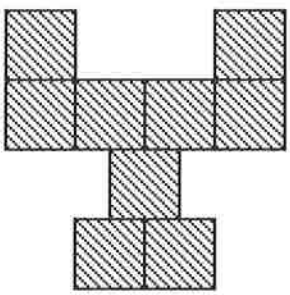


Revision Exercise

1. Find the **area** of these shapes, in cm^2.

a



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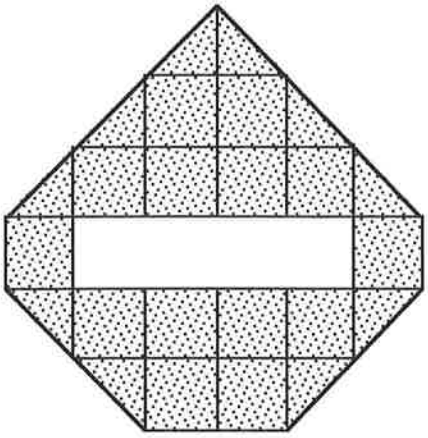
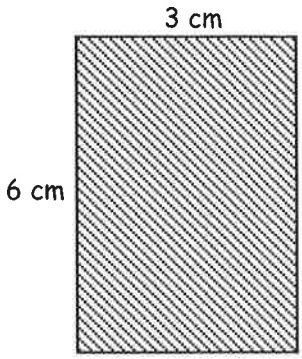


2. **a** Draw a rectangle 6 cm long by 3 cm wide.

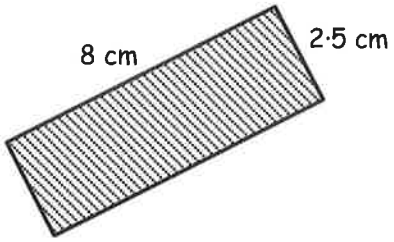
b Divide the rectangle neatly into 1 cm square boxes and count the boxes to find the **area** of the rectangle.

c Now write down and use the **formula** to **calculate** its **area**.



3. Calculate the area of each of these shapes :-

a



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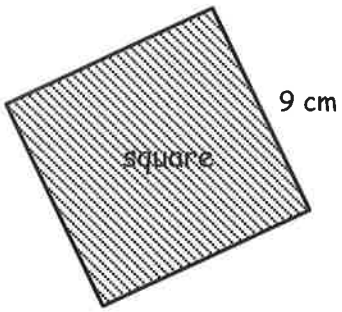


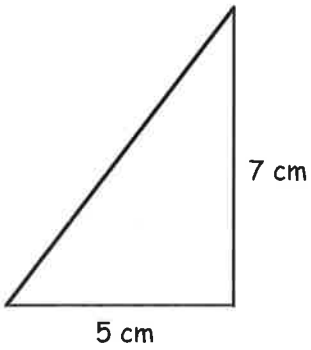
4. The floor of this town hall has to be re-carpeted.

It is rectangular in shape and measures 25 m by 6 m.

a Calculate the **area** of the floor in m^2.

b If the carpet costs £30 per square metre, calculate the cost of carpeting the floor.

5.



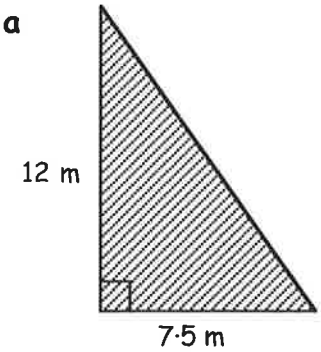
a Make an accurate drawing of this right angled triangle.

b Draw a surrounding rectangle and calculate its area.

c Now write down the **area** of the **triangle**.

6. Calculate the **area** of these right angled triangles in m^2.

a



b