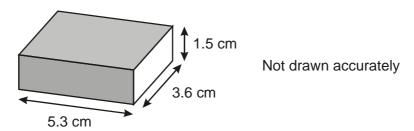
1. Matchboxes

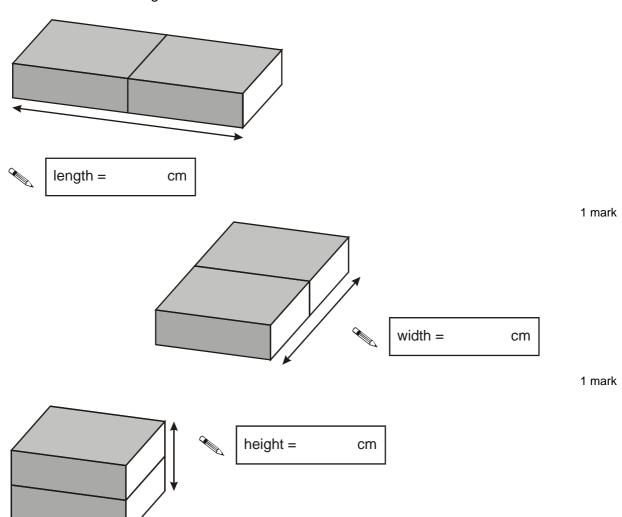
The diagram shows a matchbox.

Its length is 5.3 cm. Its width is 3.6 cm. Its height is 1.5 cm.



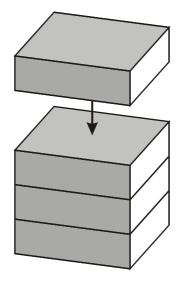
(a) I join **two** matchboxes in different ways.

Fill in the missing values.



1 mark

(b) I start joining matchboxes like this:

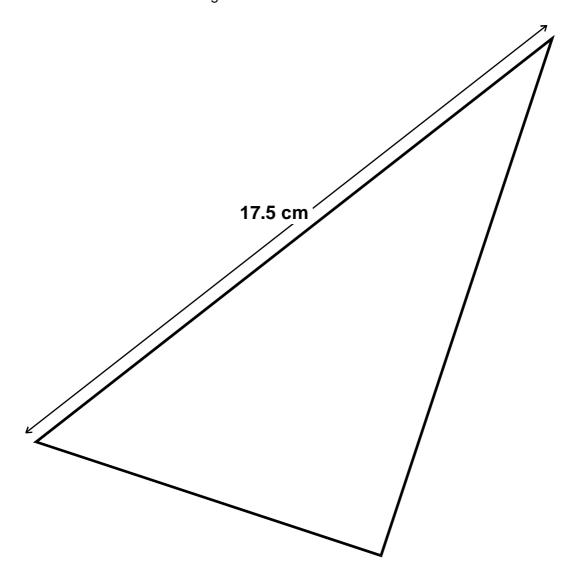


How many matchboxes will be in the pile when its height is 12 cm?

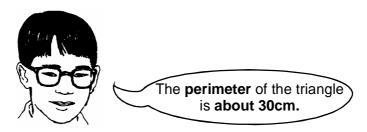


2. Lengths

(a) This triangle is accurately drawn One side is 17.5cm long.



Glyn says:



How can you tell that he is wrong without measuring the other two sides?

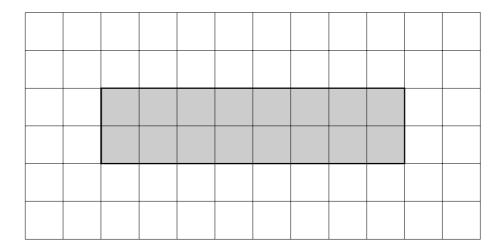


1 mark

(b)	Measure each of the other two sides of the triangle.					
	Write their lengths to the nearest 0.1 of a centimetre.					
	cm and cm and 17.5cm	2 marks				
(c)	Add up the lengths of the three sides of the triangle to find the perimeter of the triangle.					
	Remember to write down enough working to show you have not used a calculator. Working					
	cm	2 marks				

3. Thinking shapes

The diagram shows a rectangle, drawn on a square grid.



(a) Draw a **square** that has the **same area** as the rectangle.

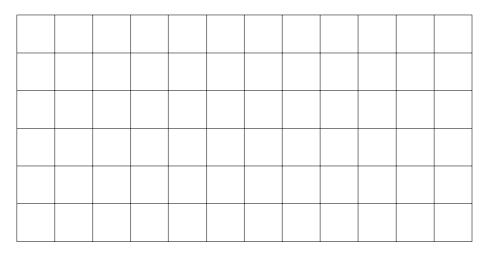


-					

1 mark

(b) Draw a **square** that has the **same perimeter** as the rectangle.

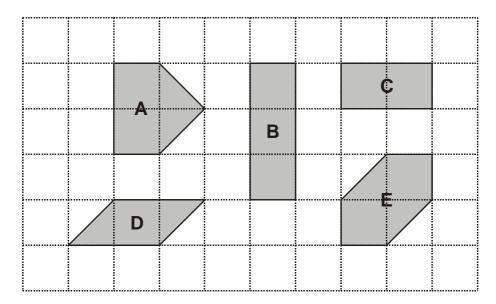




1 mark

4. Grid shapes

The diagram shows some shapes on a 10 by 6 square grid.



(a)) Which two	shapes	have the	same	area a	s shap	oe A	?
١	u	, vvilloli tvv o	SHapes	Have the	Janic	ai ca a	Juliar	,,,	_

hape i	A ?		

(b) Which **two** shapes have the **same perimeter** as shape **A**?

	1 mark

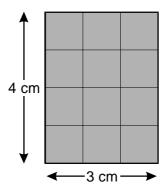
1 mark

(c) How many of shape **C** would you need to cover a 10 by 6 square grid?



5. Areas

(a) What is the **area** of this rectangle?



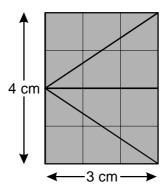


1 mark

(b) I use the rectangle to make four triangles.

Each triangle is the same size.

What is the area of **one** of the triangles?

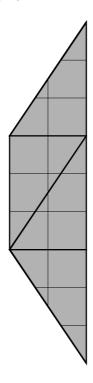




1 mark

(c) I use the four triangles to make a trapezium.

What is the area of the trapezium?



\mathcal{M}	 cm ²

1 mark