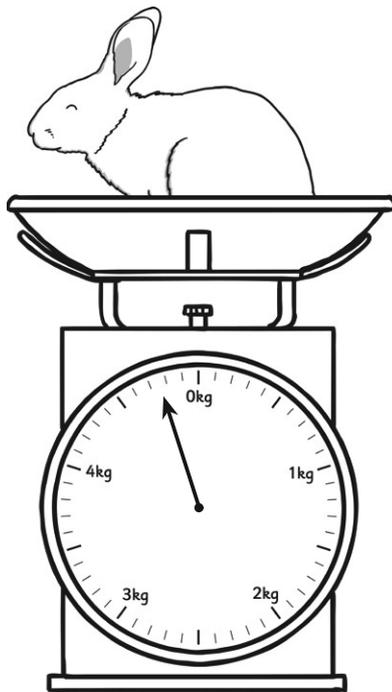
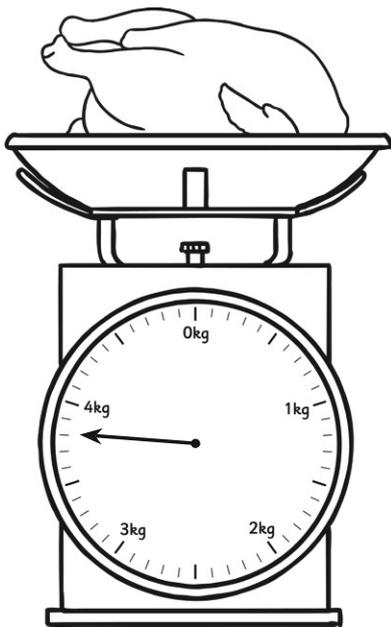
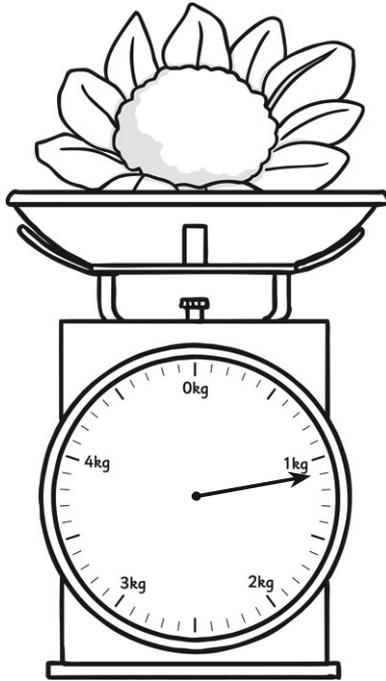
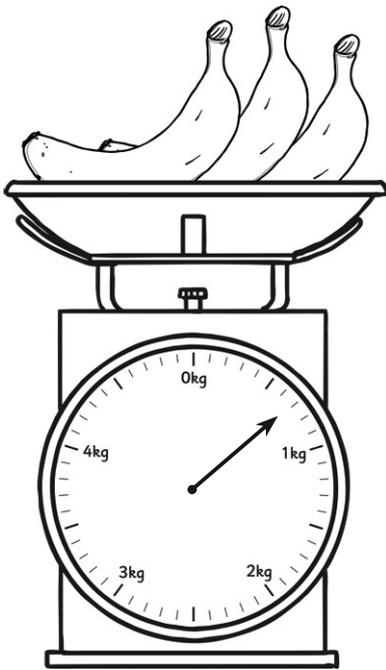


c) Write the mass shown on these scales, using both kilograms and grams:



	Mass in grams (for example 500g)	Mass in kilograms (for example 0.5 kg)
Bananas		
Cauliflower		
Chicken		
Rabbit		

4 marks

Total for this page

d) Write the volume of water in each jug, in both millilitres and litres:

i.



ii.



iii.



	Millilitres (for example 1000ml)	Litres (for example 1l)
i.		
ii.		
iii.		

e)

How many minutes are in two and a quarter hours?	
How many minutes is 210 seconds?	
300 minutes is equivalent to how many hours?	
How many minutes is equivalent to three quarters of an hour?	
How many seconds are in 7 minutes?	

3 marks

5 marks

Total for
this page

3. Convert between miles and kilometres.

a) Identify the equivalent distances in miles and kilometres, rounded to the nearest whole number, by completing the table below:

Distance in miles	Distance in kilometres
2 miles	
5 miles	
	32 km
40 miles	
	160 km

5 marks

b) This map shows the location of some cities in the world.



Complete the following table.

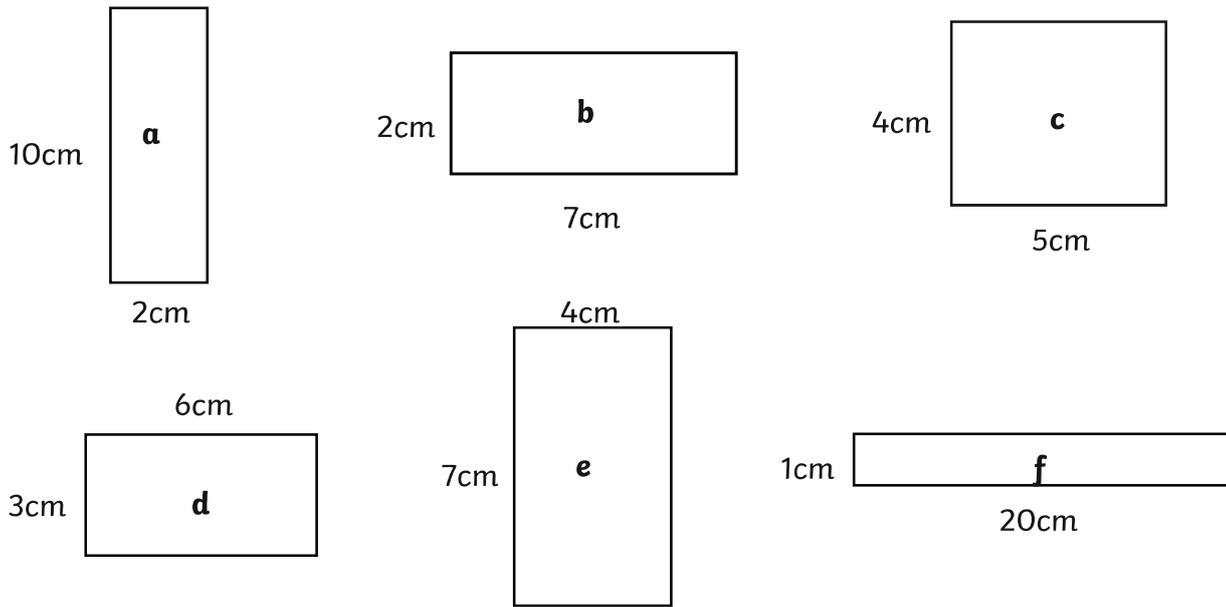
Journey	Journey in miles	Journey in kilometres
London to Moscow		2400 km
Delhi to Johannesburg		8000 km
Los Angeles to Rio de Janeiro	6300 miles	

3 marks

Total for this page

4. Recognise that shapes with the same areas can have different perimeters and vice

a) Look at these shapes. The shapes are **not** drawn to scale.

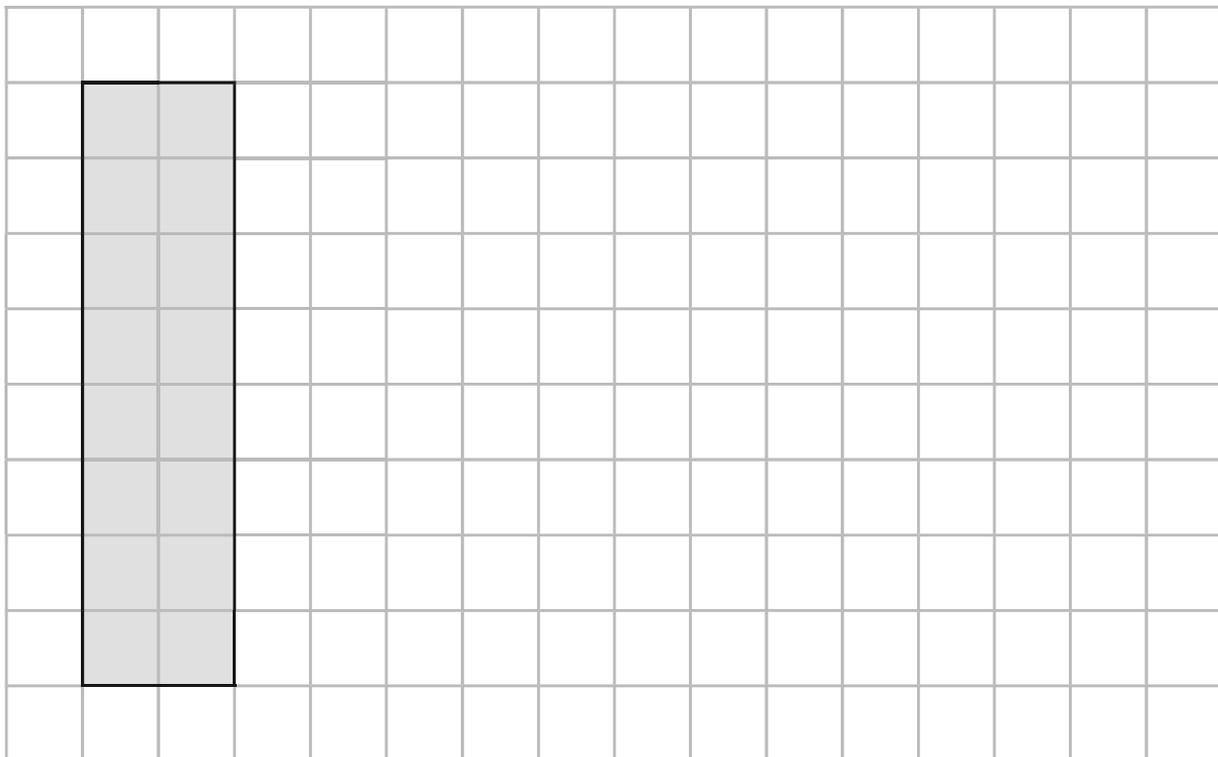


(These shapes are **not** to scale.)

Which **three** shapes have the same area?

Which **three** shapes have the same perimeter?

b) Draw a square with the same area as the rectangle in this grid.



2 marks

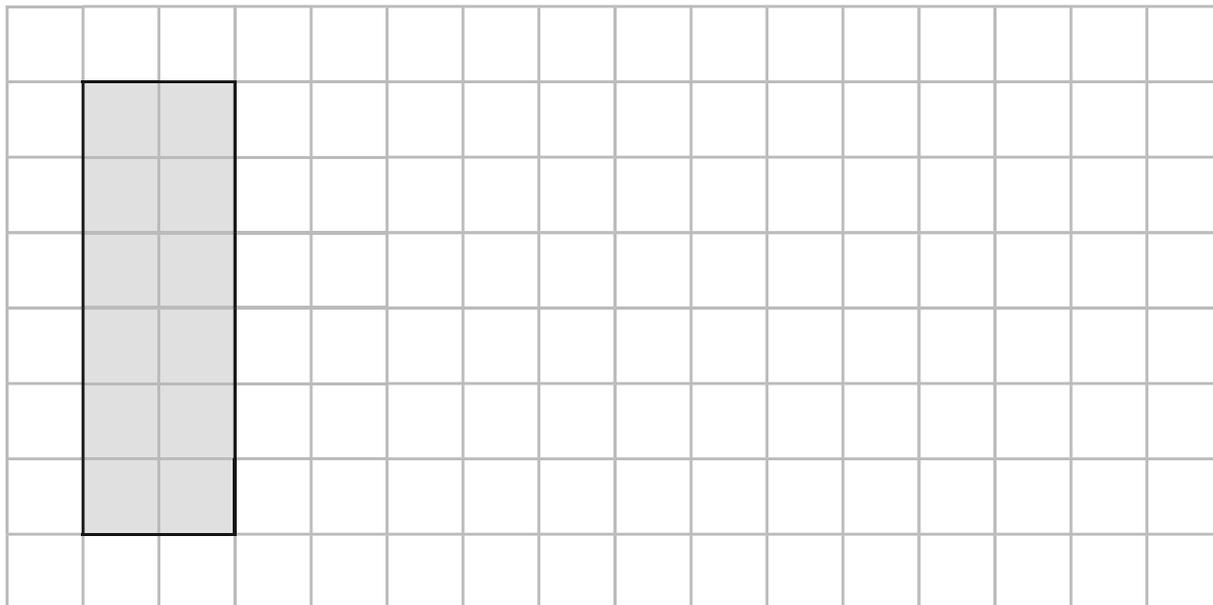


1 mark



Total for this page

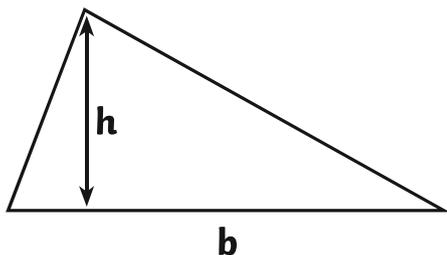
c) Draw a different rectangle with the same perimeter as the one drawn in this grid.



1 mark

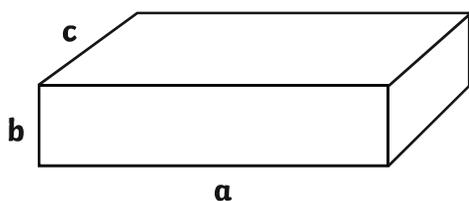
versa.

a) Write a formula you could use to calculate the area of this triangle.



2 marks

b) Here is a cuboid:



Match the formula to the measurement.

Volume

abc

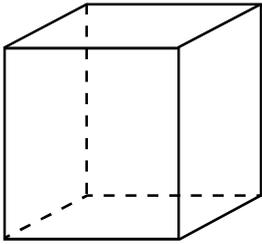
Surface area

$2(ab + ac + bc)$

1 mark

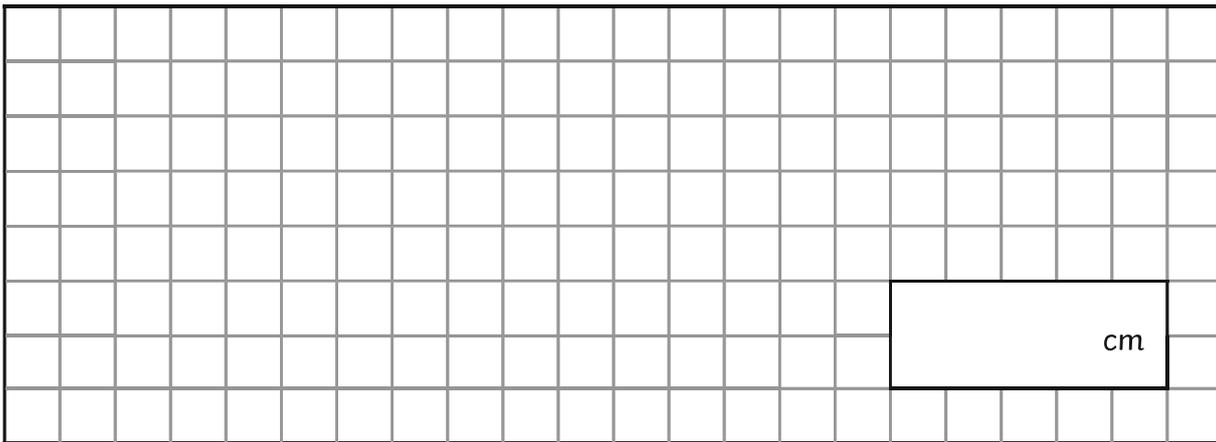
Total for this page

c) Here is a cube.



The volume of the cube is 27 cm^3 and the surface area is 54 cm^2 .

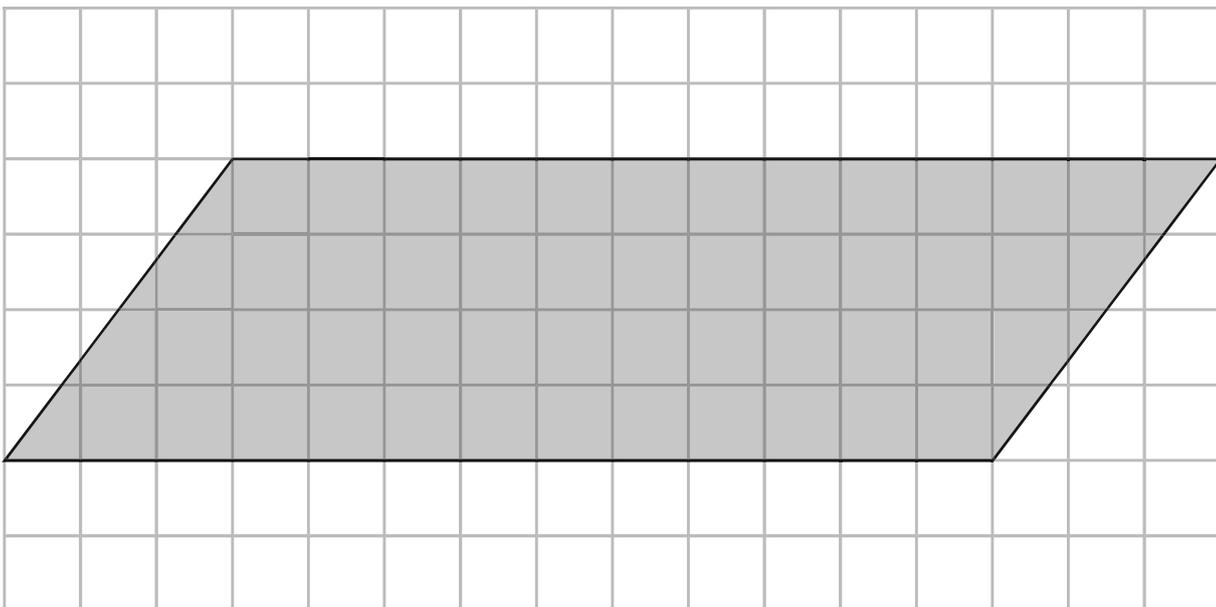
Calculate the length of each edge of the cube.



1 mark

5. Recognise when it is possible to use formulae for area and volume of shapes.

a) Calculate the area of this parallelogram.

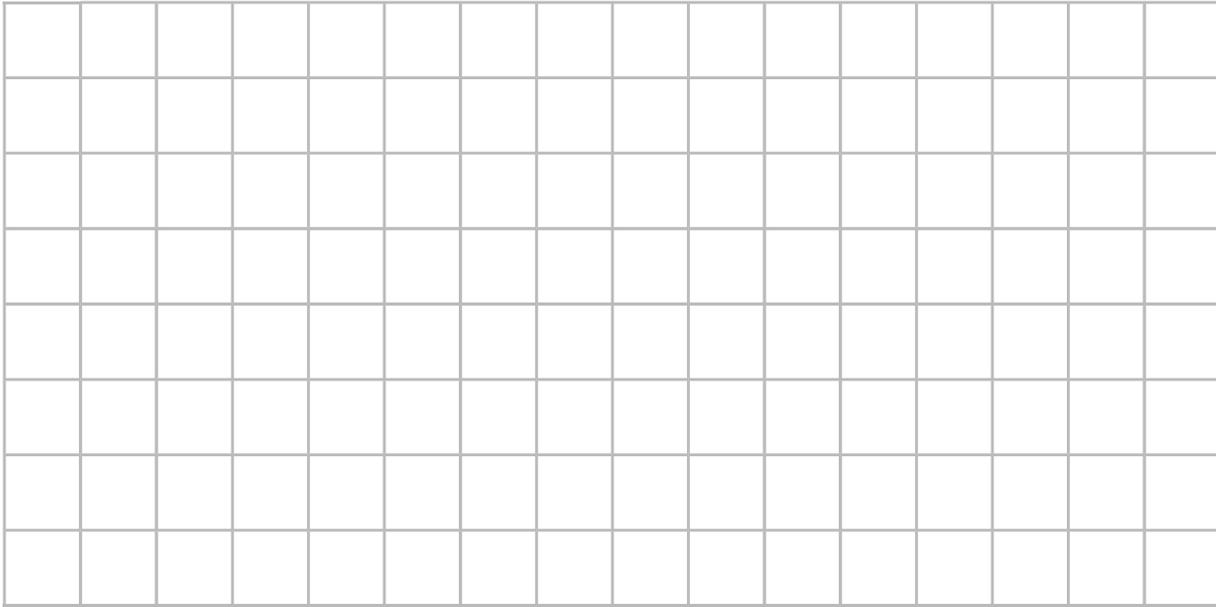


1 mark

cm^2

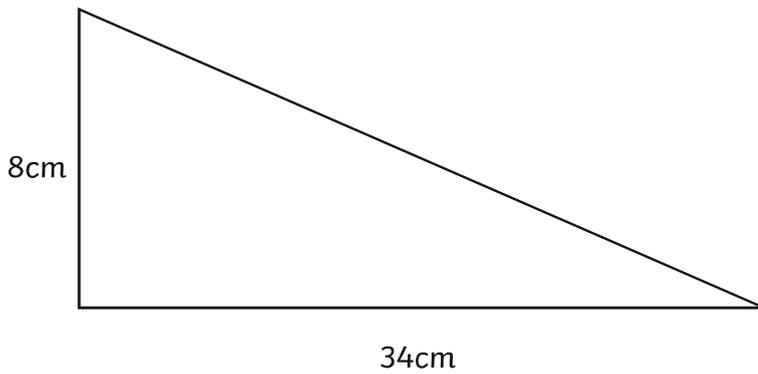
Total for this page

b) Draw a parallelogram on this grid with an area of 55cm^2 .



2 marks

c) Calculate the area of this triangle. The triangle is **not** drawn to scale.

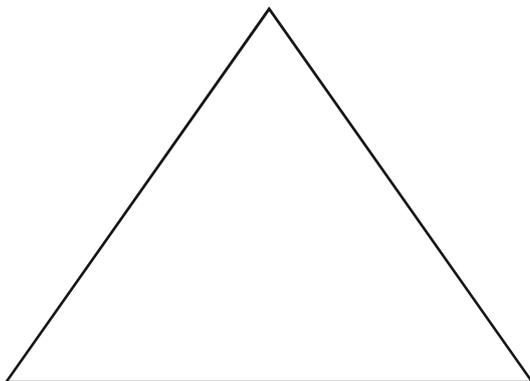


cm^2

2 marks

d) Calculate the area of this triangle:

This shape is to scale. You can use a ruler for this question.



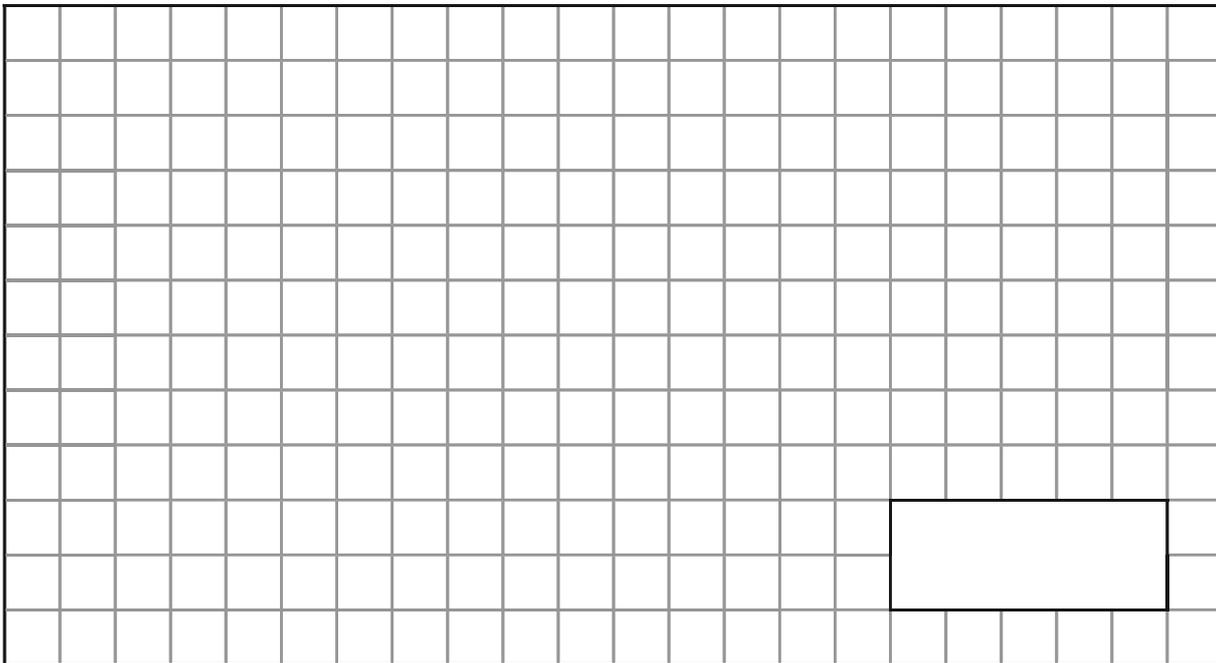
cm^2

2 marks

Total for this page

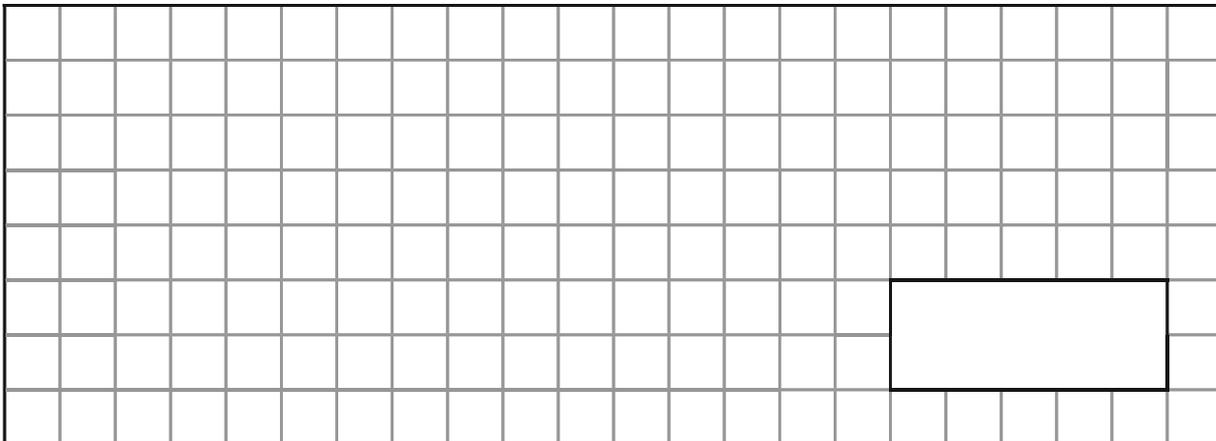
volume.

- b) A clothing business wants to build a new warehouse. The area of land is 80m long and 60m wide. The maximum height is 35m. There must be a distance of 5m between the edge of the building and the edge of the land, all the way around the building. What is the maximum volume of the warehouse?



3 marks

What is the length of one side of the cube?



1 mark

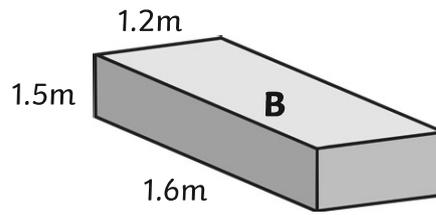
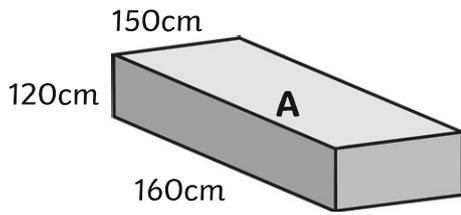
building.

2 marks

Total for this page

c) A cube has a volume of 125 mm^3 .

not drawn to scale



Use one of the signs $<$, $>$, or $=$ to compare the volume of the 2 cuboids.

Volume of A		Volume of B
-------------	--	-------------



1 mark



Total for
this page