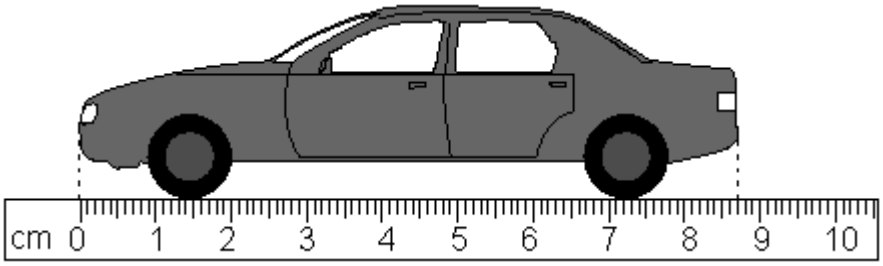
Year 5 Measurement

Q1.

Here is a drawing of a model car.



What is the **length** of the model?

Give your answer in **centimetres**, correct to one decimal place.

cm

1 mark

The height of the model is **2.8 centimetres**.

The height of the real car is **50** times the height of the model.

What is the **height** of the **real car**?

Give your answer in **metres**.

Show your method

metres

2 mark

Q2.

Tom, Amy and Helen want to go on a boat trip.

There are three boats.

Lark	Heron	Kestrel
50 minute trip	70 minute trip	90 minute trip
Tickets £2.75 each	**Tickets £3.50 each**	**Tickets £4.20 each**

How much does it cost altogether for **three** people to go on the **Lark**?

£

1 mark

Tom and Amy go on the **Heron**.

They leave at **2:15pm**.

At what **time** do they return?

pm

1 mark

Helen goes on the **Kestrel** and **gets back at 4:15pm**.

At what **time** did the boat leave?

pm

1 mark

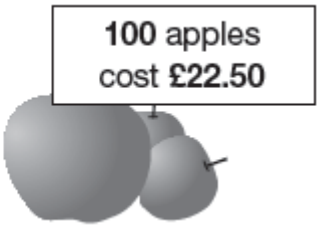
Q3.

One toffee apple needs:

1 stick,

100 g of sugar,

1 apple.

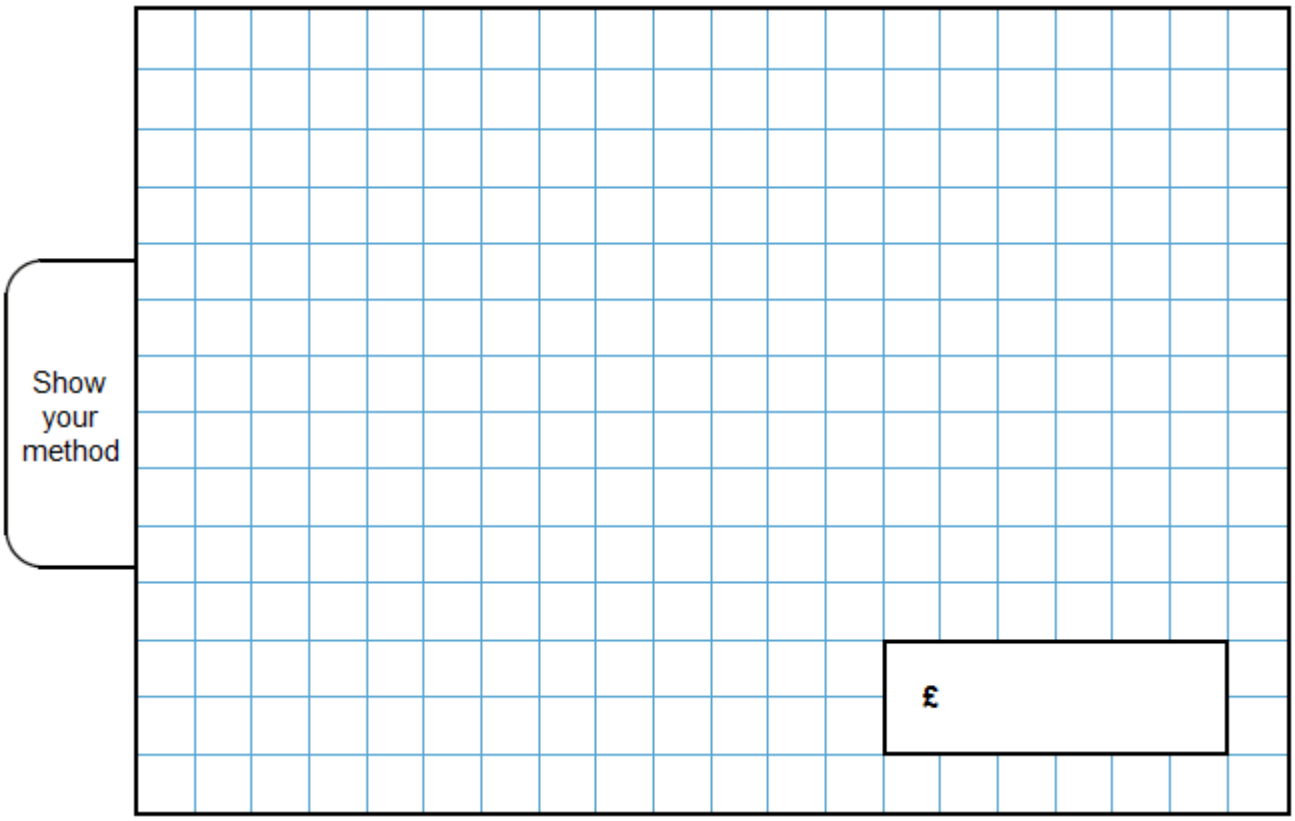


Children buy just enough sticks, sugar and apples to make **100** toffee apples.

They sell all 100 toffee apples for **£1 each**.

The profit goes to charity.

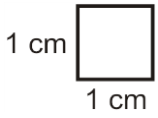
Work out how much money goes to charity.

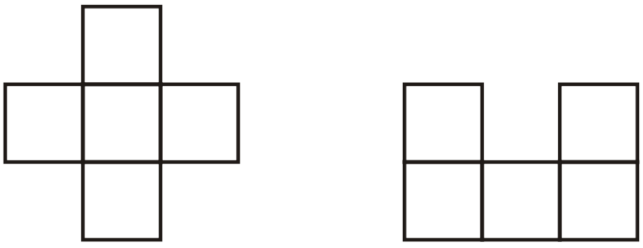


3 marks

Q4.

Here are two shapes made with centimetre squares.





Each shape has 5 squares.

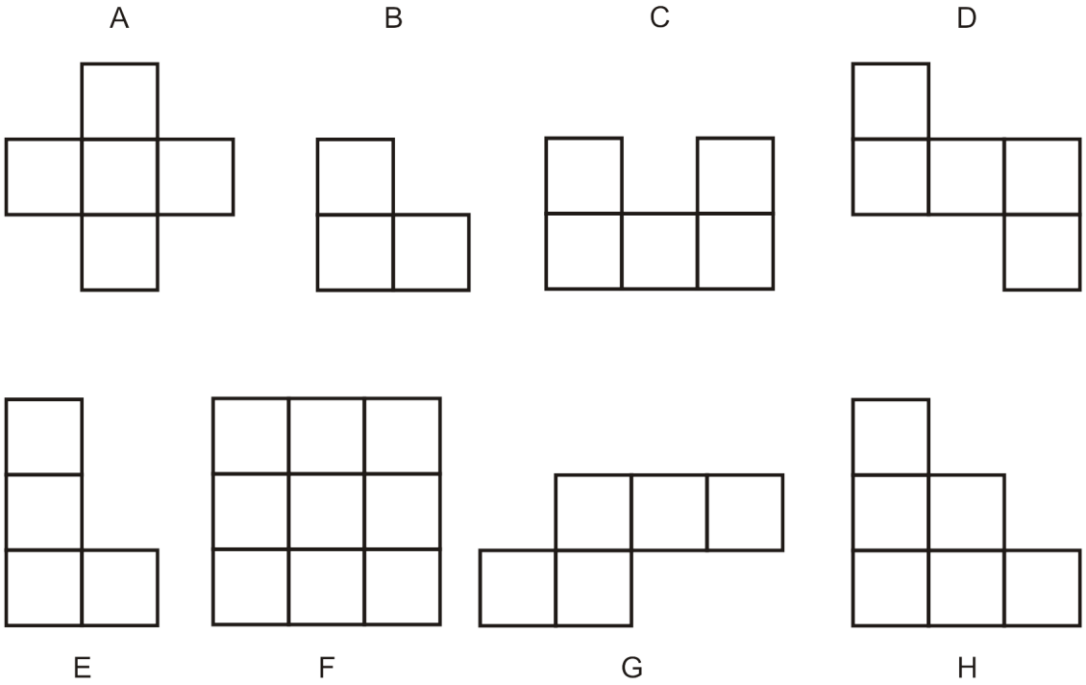
Write **ONE** other thing which is the **same** about the two shapes.

_____

_____

1 mark

Here are more shapes made with centimetre squares.



Which shape has a **perimeter** of 10 cm?

1 mark

Q5.

Chen and Megan each have a parcel.

Chen's parcel weighs $1\frac{1}{2}$ kg.

Megan's parcel weighs 1.2 kg

How many more **grams** does Chen's parcel weigh than Megan's parcel?

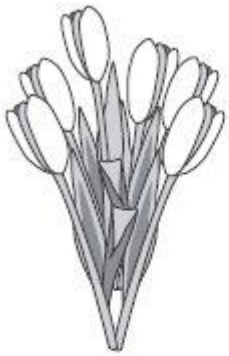
Show your method

g

2 marks

Q6.

These are some prices in a flower shop.



tulips

£1.20 for a bunch

roses

40p each

daffodils

55p for a bunch

How many roses can you buy for exactly £2?

1 mark

Amy buys **one** bunch of tulips and **three** bunches of daffodils.

How much does she pay **altogether**?

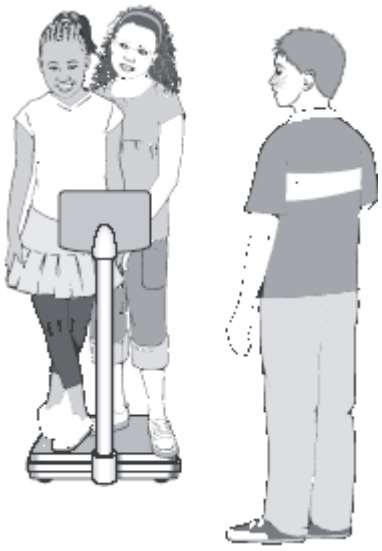
Show your method

£

2 marks

Q7.

Sarah, Amy and Liam stand on some weighing scales two at a time.



Here are the measurements:

Sarah and Amy	**70 kg**
Sarah and Liam	**80 kg**
Liam and Amy	**80 kg**

How much does Liam weigh?

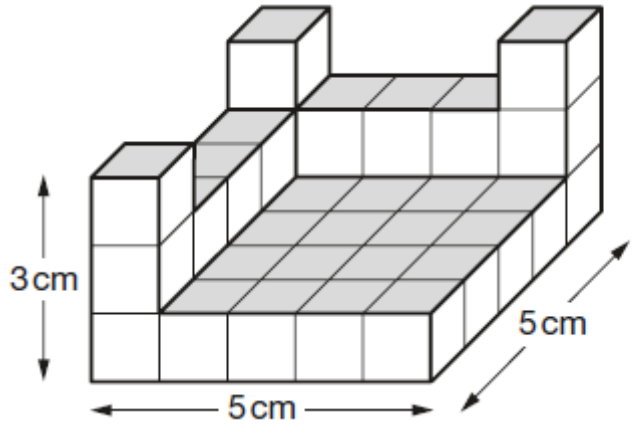
Show your method

kg

2 marks

Q8.

This shape is made of wooden centimetre cubes.



Not actual size

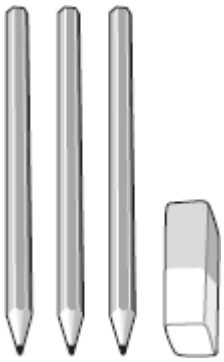
How many **more** centimetre cubes are needed to make it into a solid cuboid 3 cm tall, 5 cm long and 5 cm wide?

1 mark

Q9.

6 pencils cost **£1.68**

3 pencils and 1 rubber cost **£1.09**



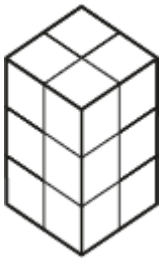
What is the cost of **1 rubber**?

Show your method

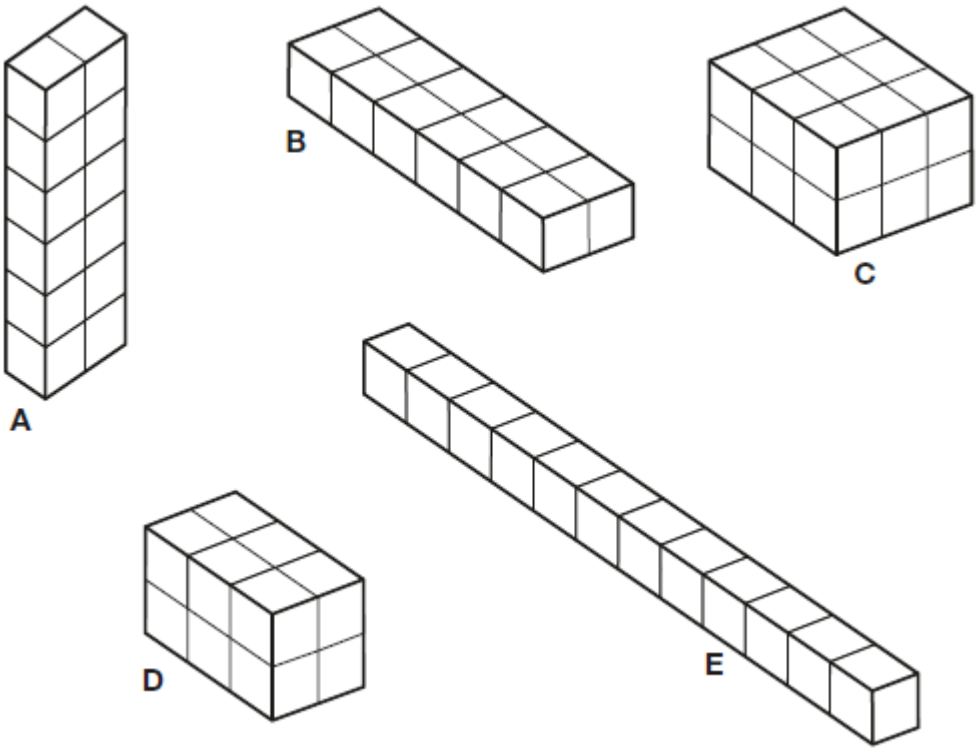
2 marks

Q10.

Emma makes a cuboid using 12 cubes.



Write the letter of the cuboid that has a **different** volume from Emma's cuboid.



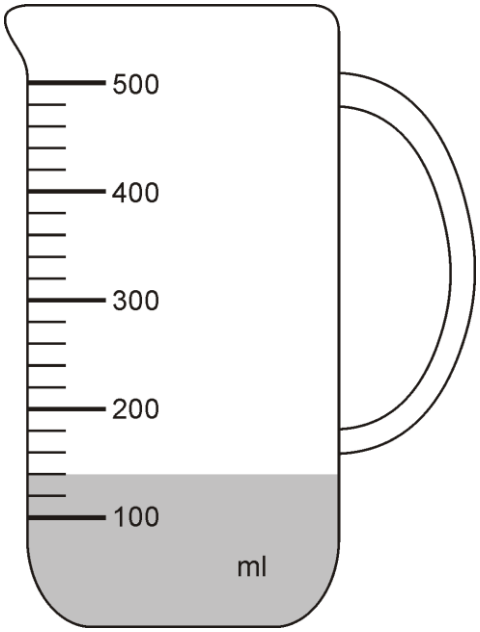
_____

1 mark

Q11.

Mr Khan makes a blackcurrant drink for a party.

He pours blackcurrant squash into a jug.



How much water must he add to make **500 millilitres** of drink?

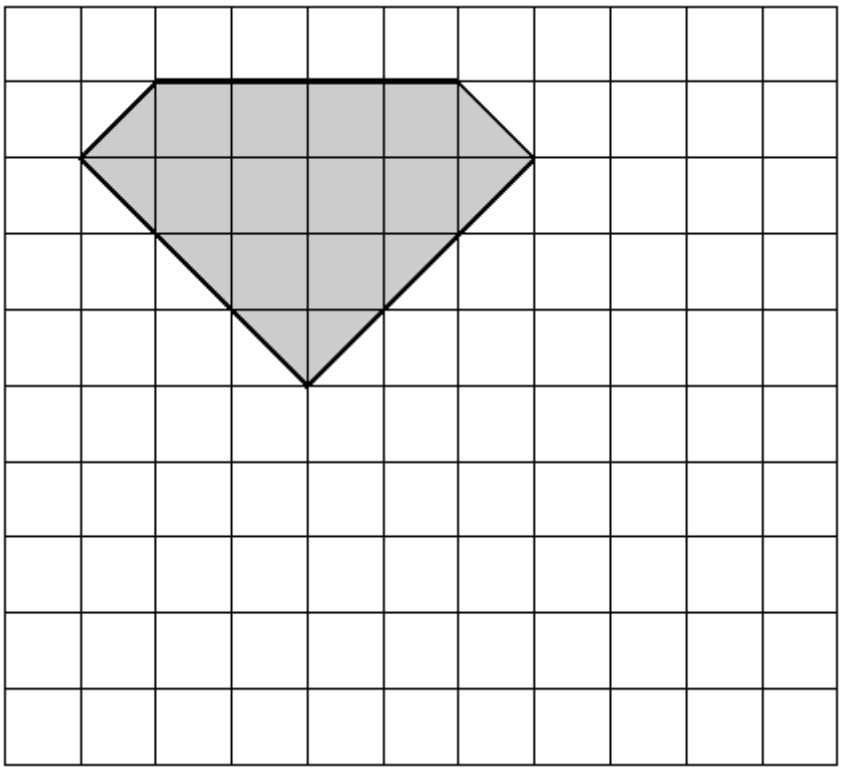
ml

1 mark

Q12.

On the grid, draw a **rectangle** which has the **same area** as this shaded pentagon.

Use a ruler.

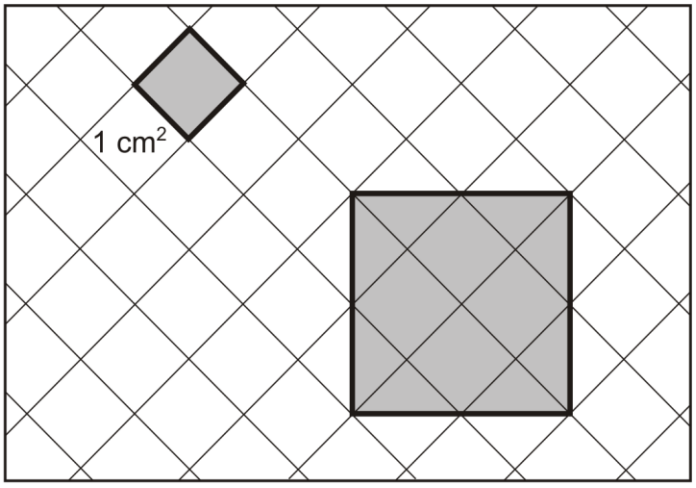


1 mark

Q13.

The **area** of the **small** shaded square is **1 square centimetre.**

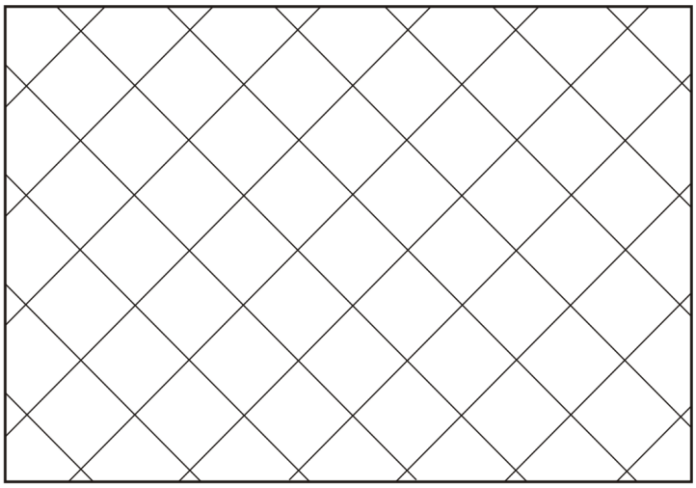
What is the **area** of the **larger** shaded square?



cm²

1 mark

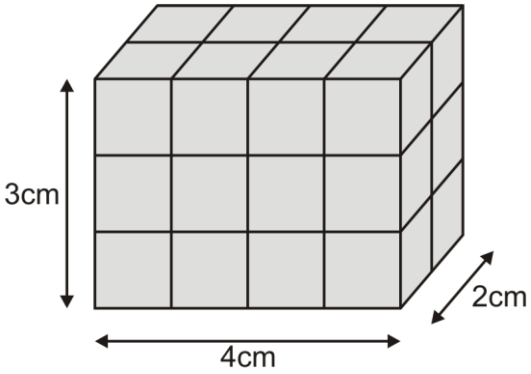
On the grid below, draw a **square** with an **area** of **2 cm²**.



1 mark

Q14.

This cuboid is made from centimetre cubes.



It is 4 centimetres by 3 centimetres by 2 centimetres.

What is the **volume** of the cuboid?

cm

1 mark

Another cuboid is made from centimere cubes.

It has a volume of **30 cubic centimetres**.

What could the **length**, **height** and **width** be?

length ____ cm^3

height ____ cm^3

width ____ cm^3

1 mark

Q15.

Some children ran in two races on sports day.

Here are their times.

	100 m race	800 m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100 m race in **second** place?

1 mark

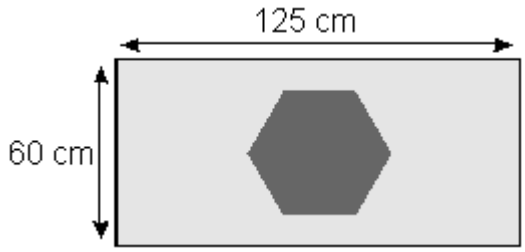
In the 800 m race, how many seconds did Barry finish ahead of Elise?

seconds

1 mark

Q16.

Here is a flag.



What is the **area** of **this flag**?

Show your method

cm²

2 marks

20% of the flag is blue.

What **area** of the flag is **blue**?

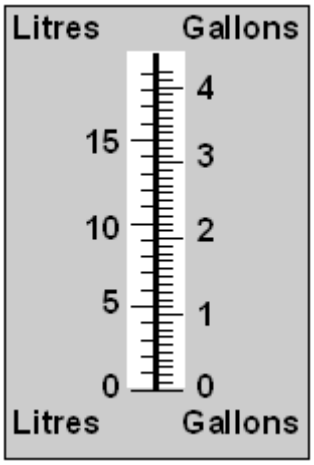
Show your method

cm²

2 marks

Q17.

At a petrol station there is a scale for converting litres and gallons.



Approximately how many **litres** are there in **3 gallons**?

Give your answer to the **nearest litre**.

litres

1 mark

Approximately how many **gallons** are there in **7 litres**?

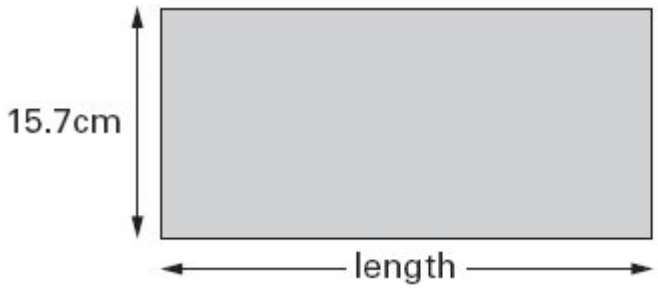
Give your answer to **1 decimal place.**

gallons

1 mark

Q18.

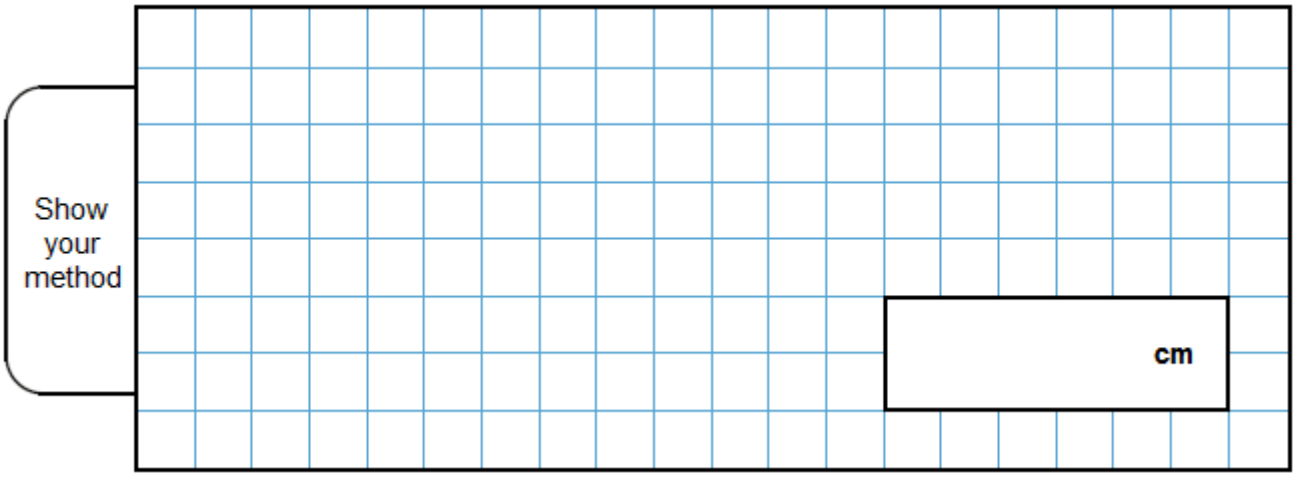
Here is a rectangle with a width of 15.7 centimetres.



Not actual size

The **perimeter** of this rectangle is 85 centimetres.

Calculate the length of the rectangle.

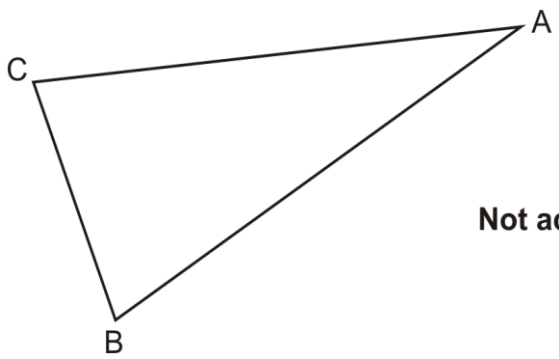


2 marks

Q19.

Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

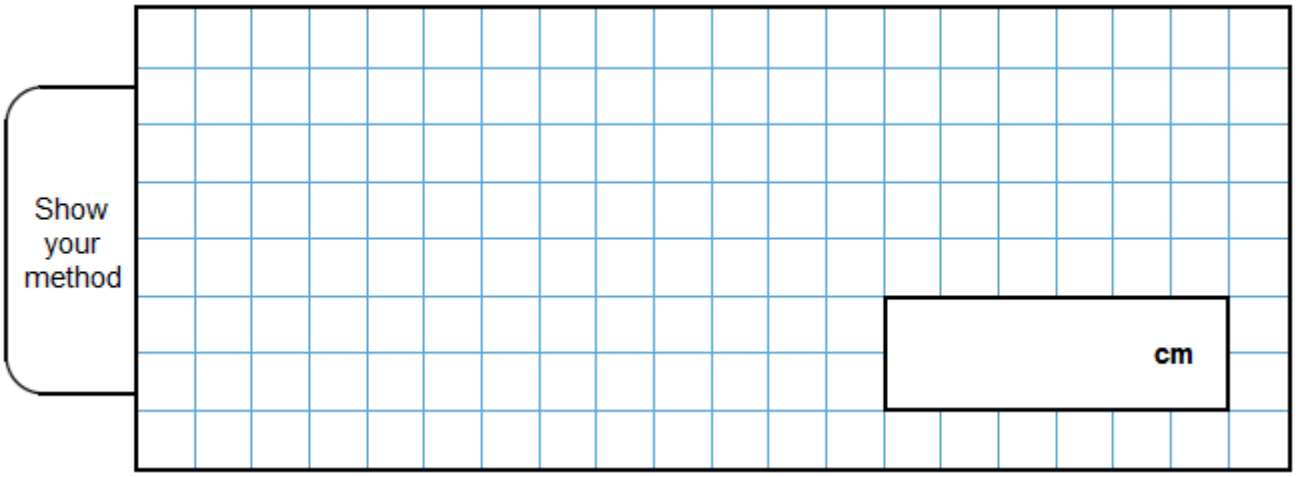
Sides **AB** and **AC** are each twice as long as **BC**.



Not actual size

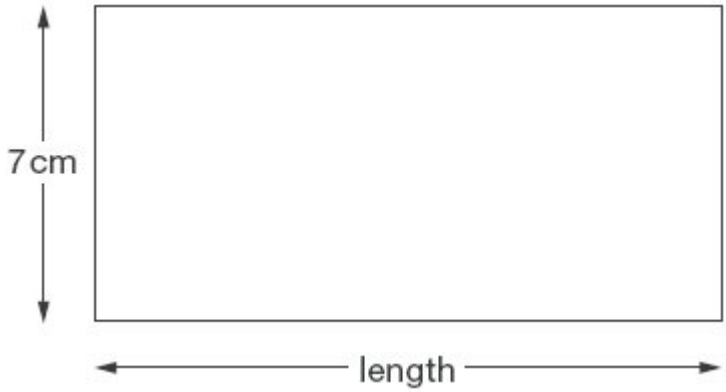
Calculate the length of the side **BC**.

Do **not** use a ruler.



2 marks

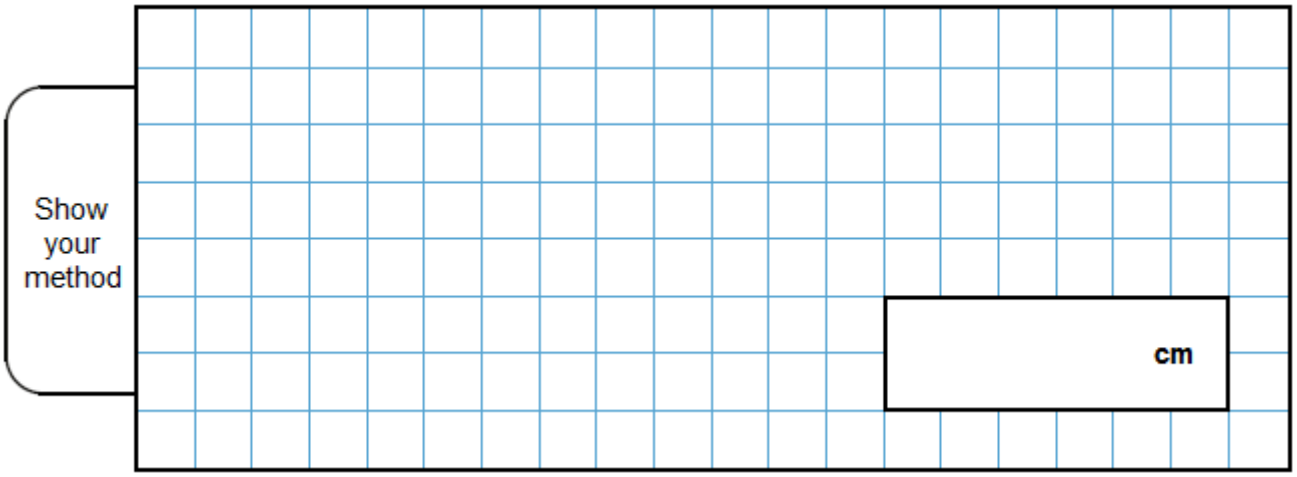
Q20.



Not actual size

The perimeter of this rectangle is 50 centimetres.

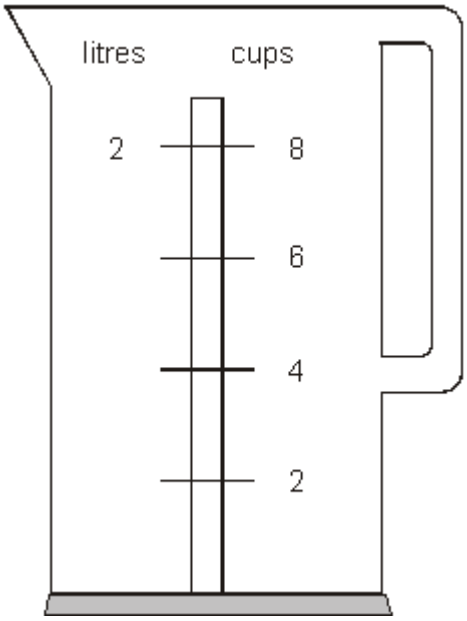
Calculate the length of the rectangle.



2 marks

Q21.

Nisha's kettle holds 2 litres of water.



How many millilitres are equal to 1 cup?

ml

1 mark

Q22.

Cheddar cheese costs £7.50 for 1 kg.

Marie buys 200 grams of cheddar cheese.

How much does she pay?

£

1 mark

Cream cheese costs £3.60 for 1 kg.

Robbie buys a pot of cream cheese for 90p.

How many grams of cream cheese does he buy?

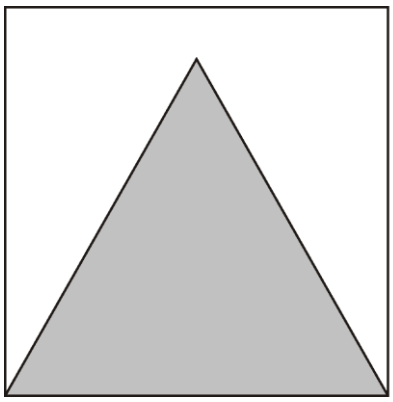
Show your method

g

2 marks

Q23.

Here is an equilateral triangle inside a square.



Not actual size

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

Show your method

cm

2 marks

Q24.

Mr Green sells apples
at 40p per **kilogram.**

Mrs Ball sells apples
at 24p per **pound.**

Work out who sells the cheaper apples.
Show how you worked it out.

Show your method

1 mark

Q25.

On sports day children get points for how far they jump.

Standing Long Jump		
Over	80cm	1 point
Over	100cm	2 points
Over	120cm	3 points
Over	140cm	4 points
Over	160cm	5 points
Over	180cm	6 points

Joe jumped 138cm.

How many points does he get?

points

1 mark

Sam said, **"I jumped 1.5 metres. I get 4 points".**

Give a reason why Sam is correct.

_____

_____

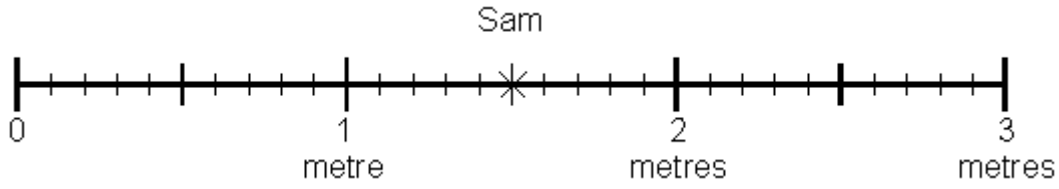
1 mark

Each child puts a cross on a line to show how far they jumped.

Sam puts her cross at 1.5 metres.

Lynn jumps **1.14** metres.

Put a cross on the line for Lynn's jump.



1 mark