



BOOSTER WORKBOOK

Measurement

M9

**Solve problems with
measures**

1

Kate has a piece of ribbon **one metre** long.

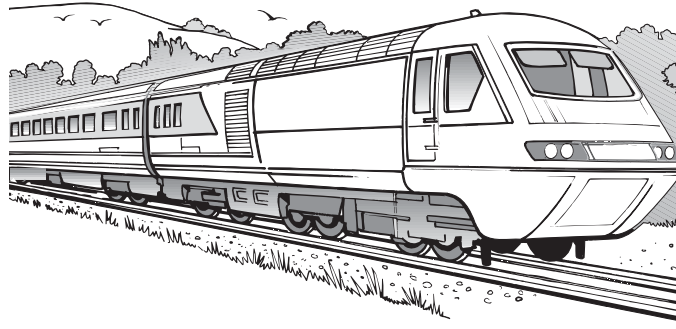
She cuts off 30 centimetres.



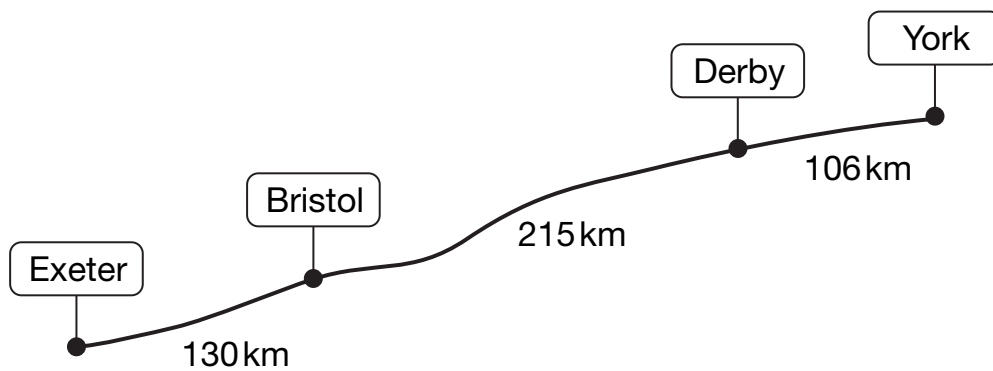
How many centimetres of ribbon are left?



1 mark



The diagram shows distances on a train journey from Exeter to York.



How many kilometres is it altogether from **Exeter** to **York**?

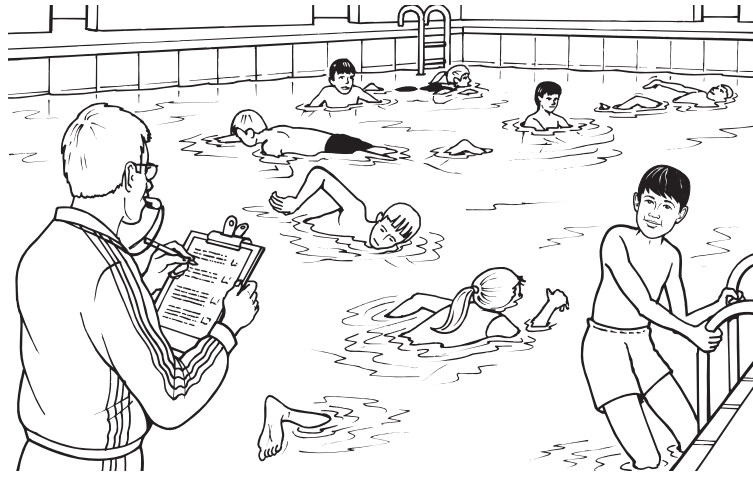

 km

1 mark

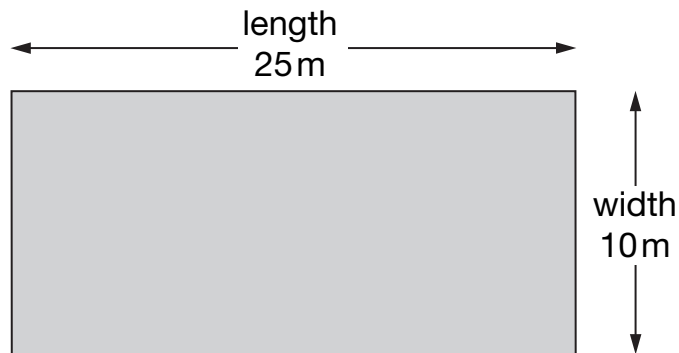
What is the distance from **Derby** to **York** rounded to the nearest 10km?


 km

1 mark



A rectangular swimming pool is 25 metres long and 10 metres wide.



David swims **5 lengths**.

Rosie swims **12 widths**.

How much **further** does David swim than Rosie?



Show your **working**.
You may get a mark.

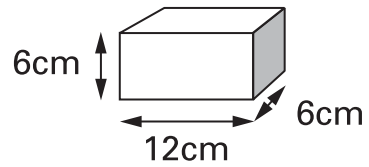
metres

2 marks

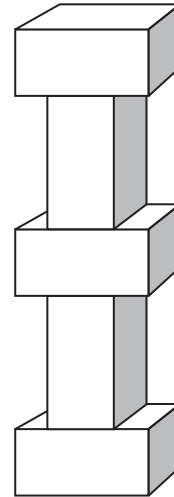
5

Martin has some bricks.

They are 12cm long, 6cm high and 6cm deep.



He builds this tower with **five** bricks.



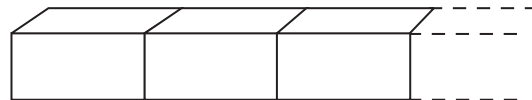
How tall is the tower?



1 mark

Each brick is 12cm long.

Martin makes a line of bricks **132cm long**.



How many bricks does he use?



1 mark

6

Jamie, Kate and Hassan run a 50m race.

Kate's time is 13 seconds.

Jamie finishes 5 seconds before Kate.

Hassan finishes 3 seconds after Jamie.



What is **Hassan's time** in seconds?

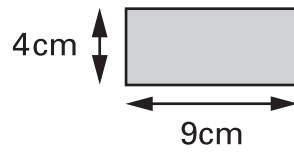


seconds

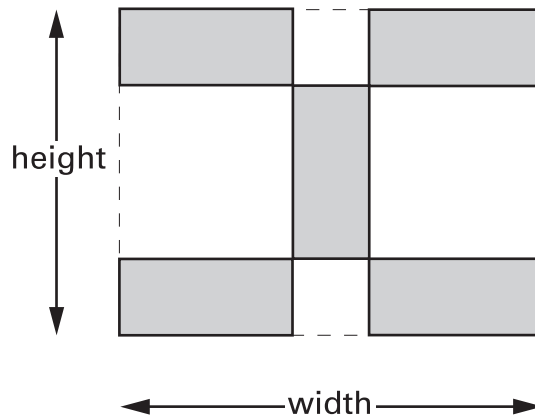
1 mark

7

Kim has some rectangular tiles.
Each one is **4 centimetres** by **9 centimetres**.



She makes a design with them.



Calculate the **width** and **height** of her design.



width =

 cm

height =

 cm

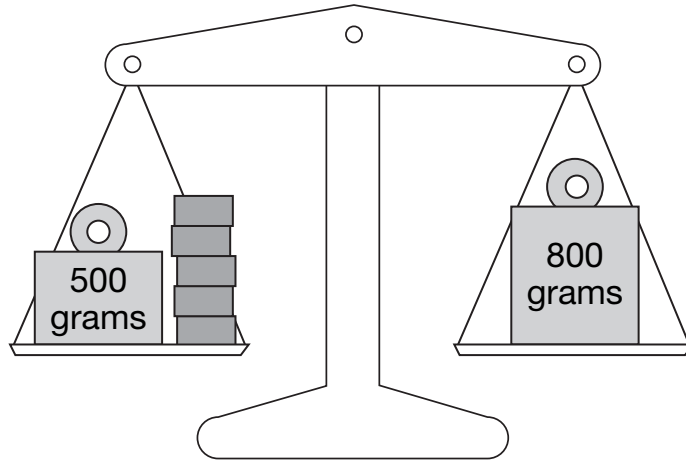
1 mark

1 mark

8

Lin has five blocks which are all the same.

She balances them on the scale with two weights.



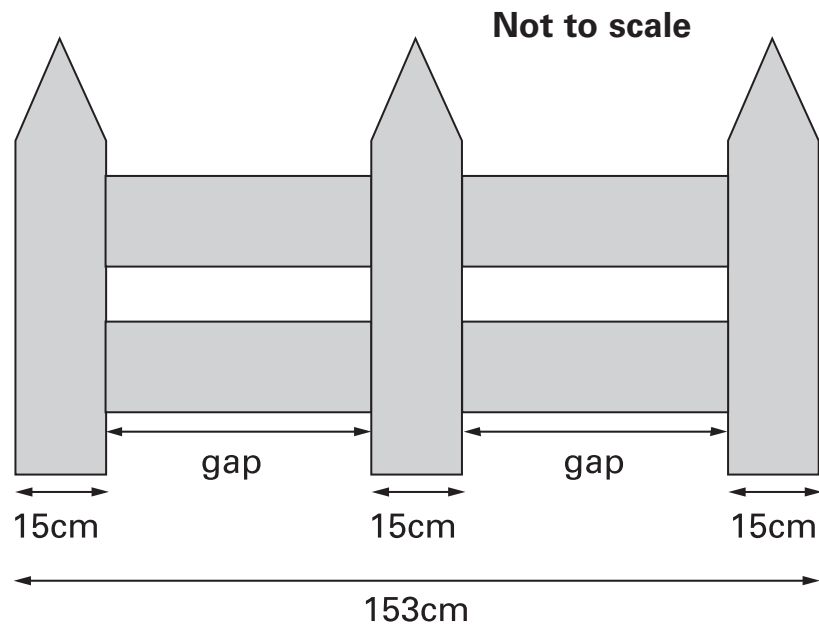
Calculate the weight of **one** block.

 Show your **method**. You may get a mark.

2 marks

9

This fence has three posts, equally spaced.



Each post is **15 centimetres** wide.

The length of the fence is **153 centimetres**.

Calculate the length of **one gap** between two posts.

Show your **method**.
You may get a mark.

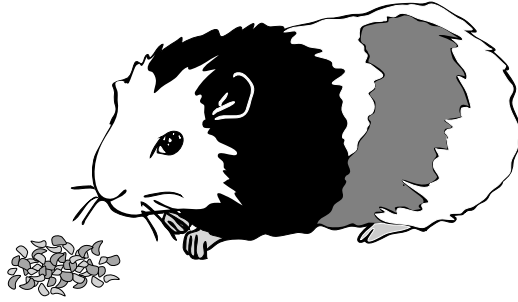
cm

2 marks

10

A packet contains **1.5 kilograms** of guinea pig food.

Remi feeds her guinea pig **30 grams** of food each day.



How many days does the packet of food last?

 Show your **working**. You may get a mark. 

days

2 marks



Cheddar cheese costs £7.50 for 1kg.

Marie buys 200 grams of cheddar cheese.

How much does she pay?

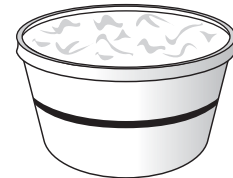


£

1 mark

Cream cheese costs £3.60 for 1kg.

Robbie buys a pot of cream cheese for 90p.



How many grams of cream cheese does he buy?



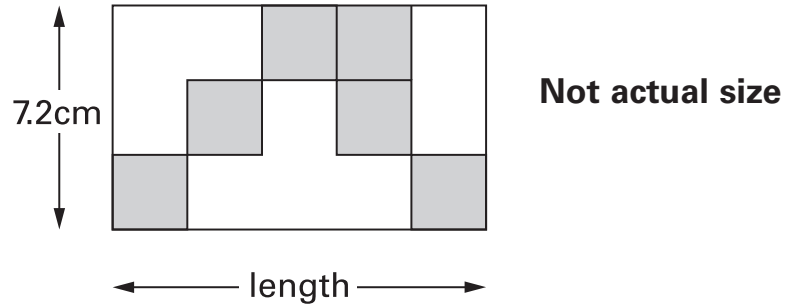
Show your **method**.
You may get a mark.

grams

2 marks

12

Here is a rectangle with six identical shaded squares inside it.



The width of the rectangle is **7.2 centimetres**.

Calculate the **length** of the rectangle.

Show your **method**.
You may get a mark.

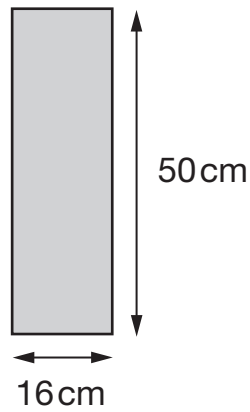
cm

2 marks

13

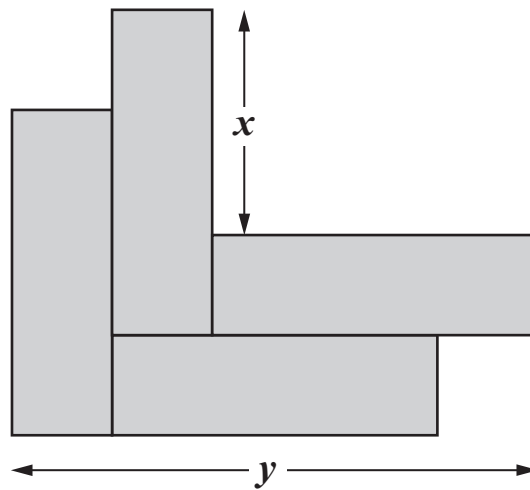
Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



Not actual size

She makes this design with four of the rectangles.



Work out the lengths x and y .

 $x =$

1 mark

$y =$

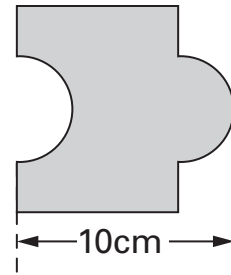
1 mark

14

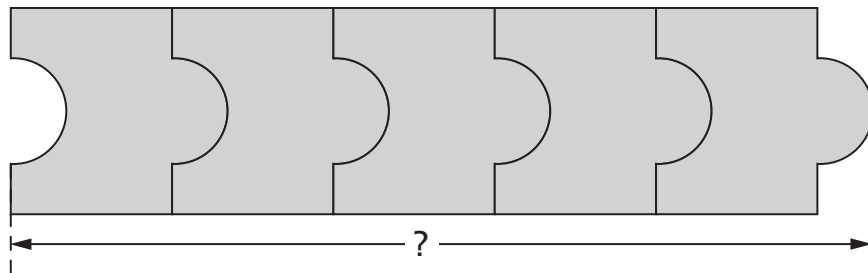
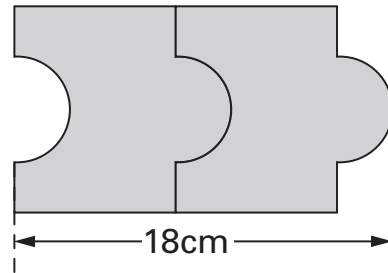
Josh has some tiles.

Not actual size

Each tile is 10cm long.



Two tiles fitted together are 18cm long.



Calculate the length of **five** tiles fitted together.

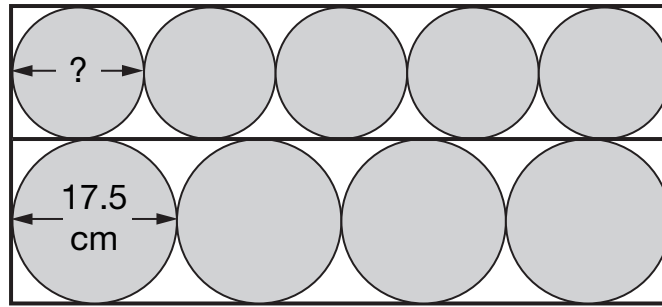
Show your **working**.
You may get a mark.

cm

2 marks

15

Four large circles and five small circles fit exactly inside this rectangle.



Not
actual size

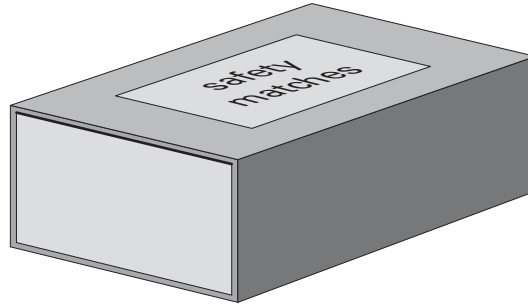
The **diameter** of a large circle is **17.5** centimetres.

Calculate the **diameter** of a small circle.

Show your **method**.
You may get a mark.

2 marks

cm



A box contains 220 matches and weighs 45 grams.

The empty box weighs 12 grams.

Calculate the weight of **one** match.



Show your **method**.
You may get a mark.

2 marks