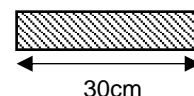
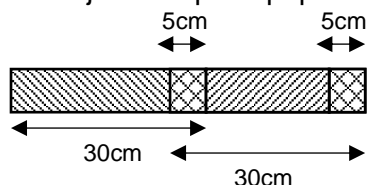


1

Strips of paper are **30 centimetres** long.
Steve joins strips of paper together to make a **streamer**.



The strips overlap by **5cm**.
How long is a streamer made from only **2 strips**?


 cm

Sunita makes a streamer that is **280cm** long.
How many **strips** does she use?



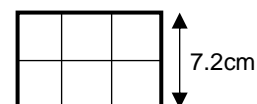
Show
your **method**.
You may get
a mark.

 cm

3 marks
22.97a

2

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
22.4b

3

Each paper clip is made from a **9.2 centimetres** of wire.
What is the greatest number of paper clips that can be made from **10 metres** of wire?

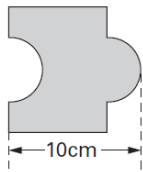


Show
your
method

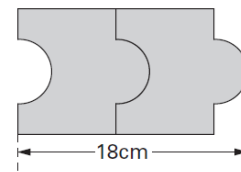
2 marks
22.98b

4

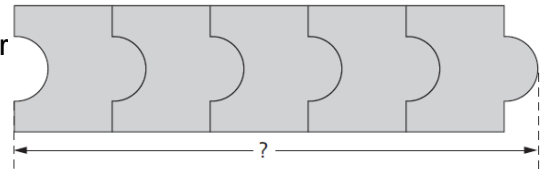
Josh has some tiles.
Each tile is 10cm long.



Two tiles fitted together are 18cm long.



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



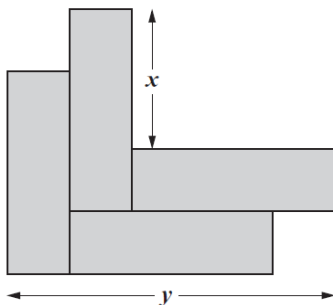
Show
your **working**.
You may get
a mark.

cm

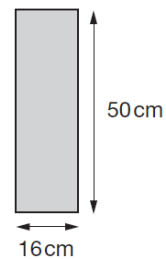
2 marks
24.5a

5

Kate has some rectangles.
They each measure 16 centimetres by 50 centimetres.
She makes this design with four of the rectangles.



Work out the lengths x and y.



x =

cm

y =

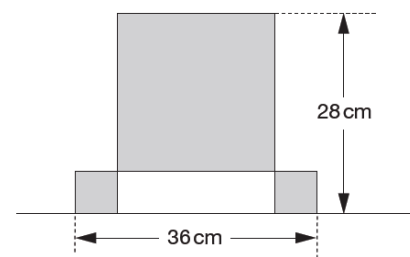
cm

2 marks
23.7b

6

This design has **one large square** and **two identical small squares**.

The design measures 36 centimetres by 28 centimetres.



Calculate the length of a side of the **large** square.

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

cm

2 marks
24.9a

- 7 Every **100g** of brown bread contains **6g** of fibre.
A loaf of bread weighs 800g and has 20 equal slices.
How much fibre is there in **one** slice?



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

g

2 marks
24.4b

- 8 A box contains 220 matches and weighs 45 grams. The empty box weighs 12 grams.
Calculate the weight of one match.

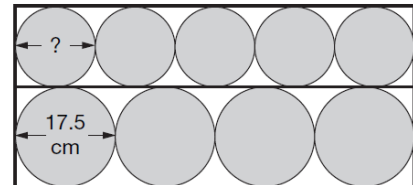


Show
your **method**.
You may get
a mark.

g

2marks
25.5b

- 9 Four large circles and five small circles fit exactly inside this rectangle.
The **diameter** of a large circle is **17.5** centimetres.



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



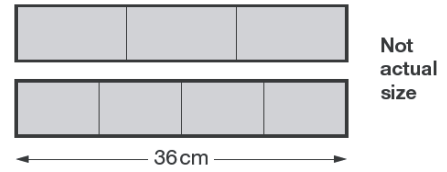
Show
your **method**.
You may get
a mark.

cm

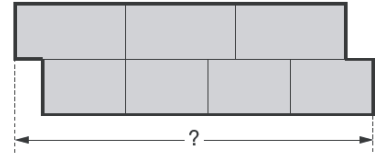
2 marks
25.6b

10

Joe has two strips of card.
Each strip is 36 centimetres long.
One strip is divided into three equal parts.
The other strip is divided into four equal parts.



Joe uses the two strips to make this shape.
What is the total length of Joe's shape?



CHALLENGE GDS QUESTIONS:

Q1

In a zoo, the adult polar bear weighs three times more than the baby elephant.
Together they weigh 700 kilograms.
How much does the polar bear weigh?

 Show your method

Q2

Megan goes on a walking holiday for five days.
The table shows how far she walked on the first four days.

Monday	Tuesday	Wednesday	Thursday
14km	23km	13km	13km

Megan says,

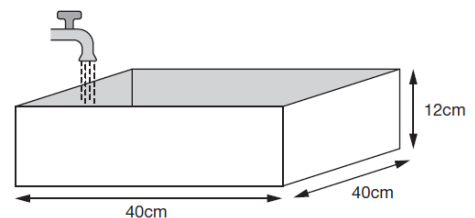
'My average for the first four days is more than 15km.'

Explain why Megan is **correct**.

Q3

Every second, 300cm^3 of water comes out of a tap into a cuboid tank.

The base of the tank is 40cm by 40cm
The height is 12cm
How many seconds does it take to fill the tank?



 Show your method

seconds

40

This photograph shows three Russian dolls.

The real-life height of the
largest Russian doll is
13.5cm

What is the real-life
height of the smallest
Russian doll?



 Show your working

cm