

SATs Length problems

Q1.

Amina's bed is 190 cm in length and 91 cm in width.

She is making a **one-tenth** scale model of the bed.

What are the length and width of Amina's model?

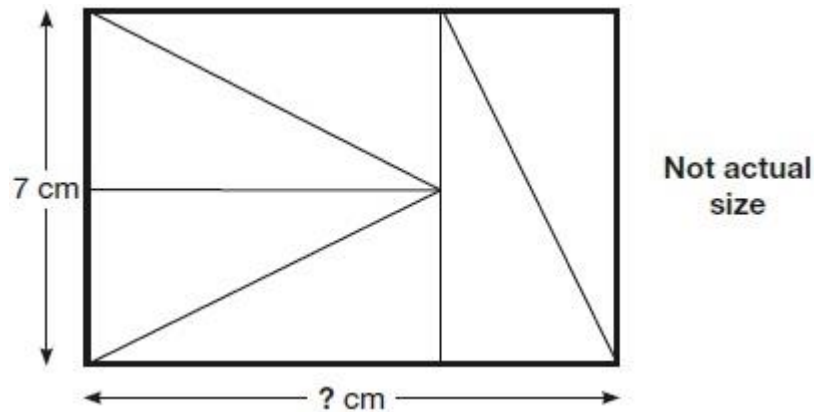
length =

width =

1 mark

Q2.

Six identical right-angled triangles are arranged to make a rectangle.

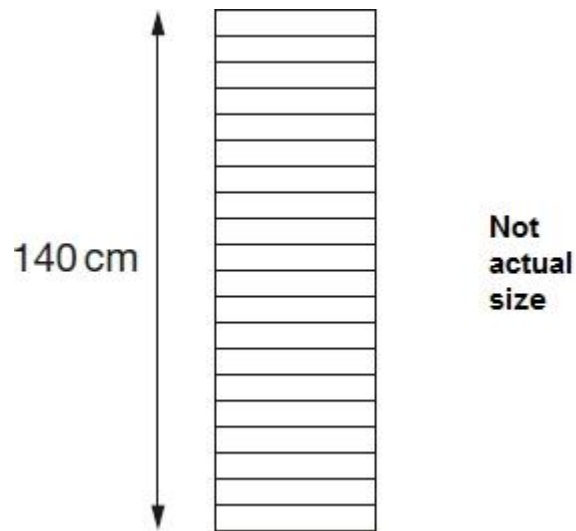


Calculate the **length** of the rectangle.

1 mark

Q3.

A stack of 20 identical boxes is 140 cm tall.



Stefan takes **three** boxes off the top.

How tall is the stack now?

Show your method

The grid is 20 units wide and 10 units high. A small rectangular box is drawn in the bottom right corner of the grid, with the label "cm" inside it.

2 marks

Q4.

Jacob cuts **4** metres of ribbon into **three** pieces.

The length of the first piece is **1.28** metres.

The length of the second piece is **1.65** metres.

Work out the length of the third piece.

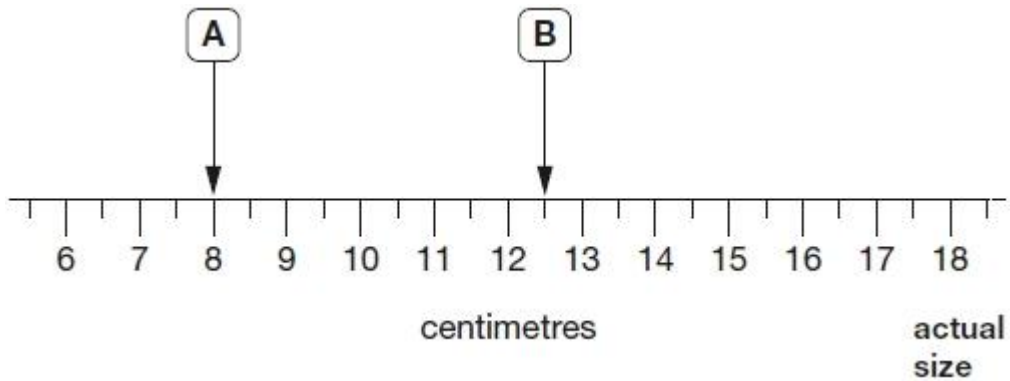
Show your method

metres

2 marks

Q5.

Here is part of a centimetre scale, with two points marked.



What is the distance between point **A** and point **B**?

cm

1 mark

Point **C** is **twice as far** from point **A** as it is from point **B**.

On the scale above, mark one place where point **C** could be.

1 mark

Q6.

Circle the approximate measurement.

The length of a banana is about ...

- 2 cm 20 cm 2 mm 2 m 20 m

The mass of an apple is about ...

- 2 g 20 kg 200 kg 200 g 2 kg

A glass of fruit juice is about ...

- 2 ml 2 l 20 ml 200 ml 20 l

Q7.

Freddie is half as tall as his mother.

Freddie is one metre shorter than his father.

Freddie's father is 180 centimetres tall.



How many centimetres tall is Freddie's mother?

 cm

1 mark