MISSING
LENGTHS FROM DIAGRAMS

13 A stack of 20 identical boxes is 140 cm tall.
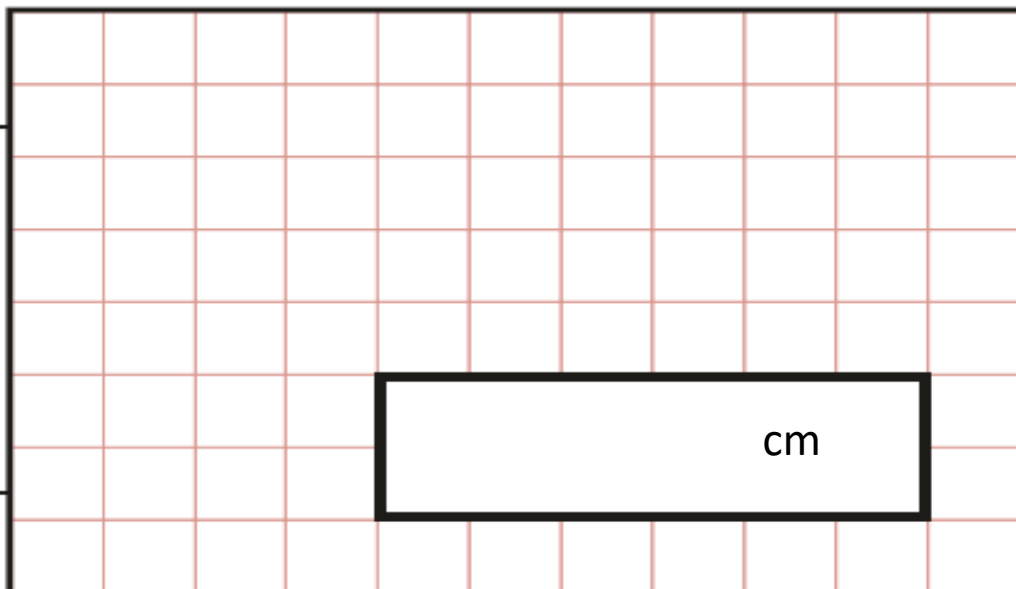
LAST YEARS questions

Not actual size

140 cm

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

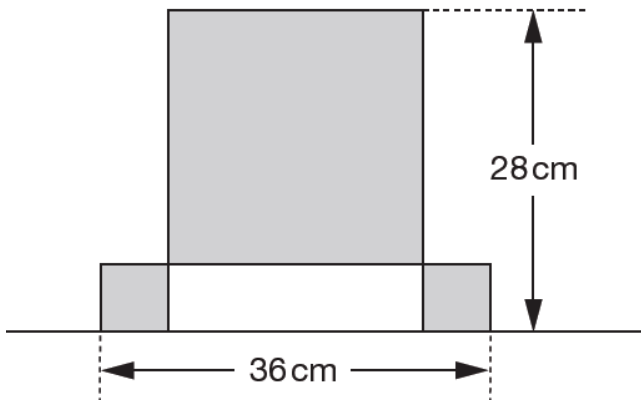How tall is the stack now?

Show your method

cm

Y6 SATs

Missing Lengths From Diagrams BOOSTER

2009A KS2 Q24

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

The design measures 36 centimetres by 28 centimetres.

28 cm

36 cm

Calculate the length of a side of the **large** square
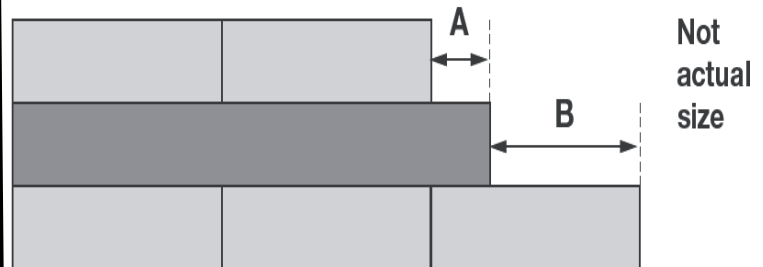
Show your **working**. You may get a mark.

You Tube

cm

2010A KS2 Q13

Liam has two different sizes of rectangle.

←————— 45 cm —————→   ←— 20 cm —→

He makes this pattern with them

A

B

Not actual size

A = [   ] cm

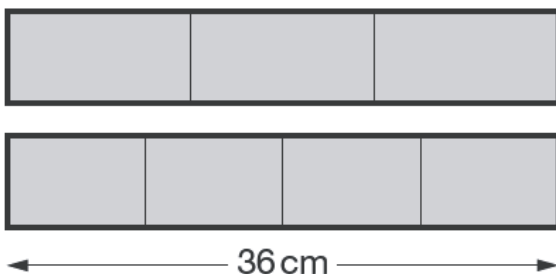Calculate the lengths of **A** and **B**.

B = [   ] cm

2011A KS2 Q25
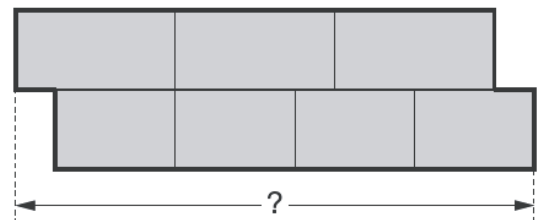
Joe has two strips of card.

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.
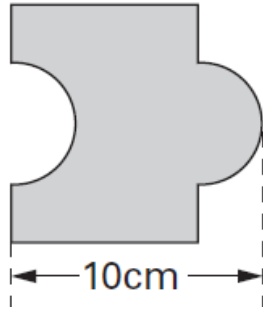
?

What is the total length of Joe's shape?

36 cm

Not actual size

Show your working

You Tube

cm

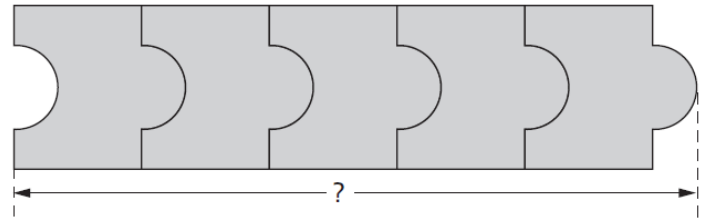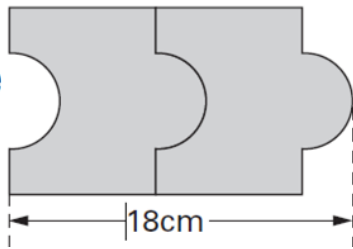Josh has some tiles.

Not actual size

Each tile is 10cm long.

—10cm—

Two tiles fitted together are 18cm long.

—18cm—

?

Calculate the length of **five** tiles fitted together.
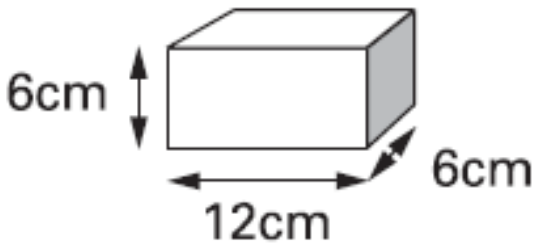
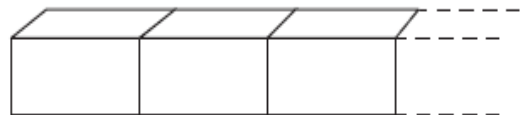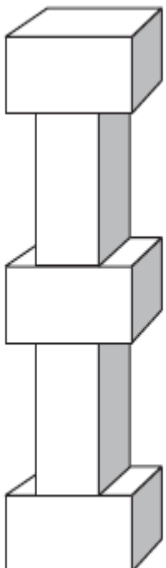Show your **working.** You may get a mark.

cm

Martin has some bricks.

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

6cm

6cm

12cm

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

Each brick is 12cm long.

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

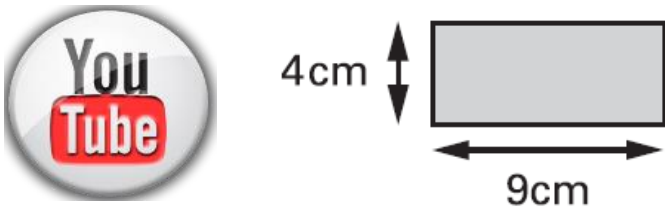How tall is the tower?

cm

How many bricks does he use?
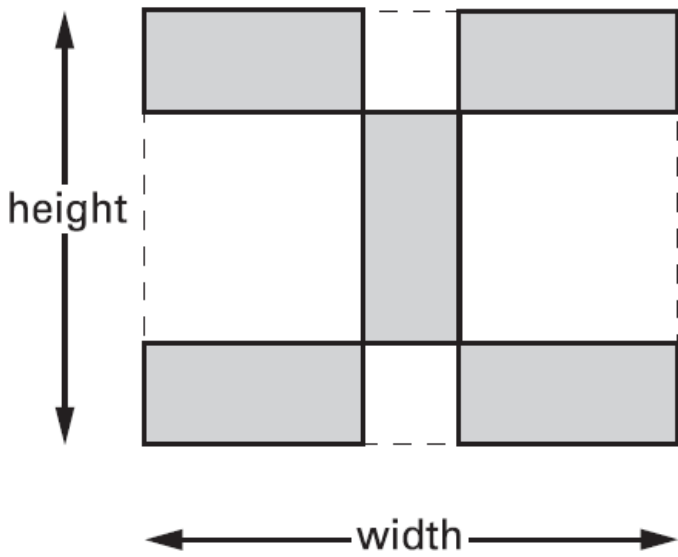
Kim has some rectangular tiles.

Each one is **4 centimetres** by **9 centimetres**.
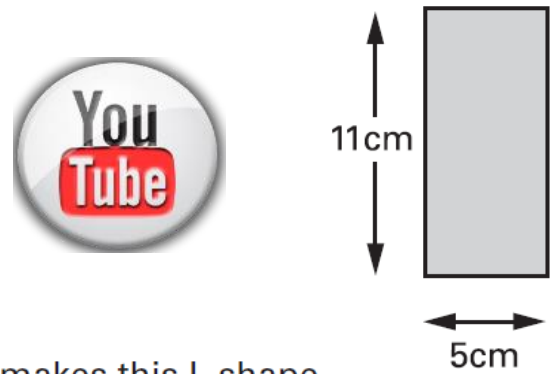
4cm

9cm

She makes a design with them.

height

—width—

width = ___ cm   height = ___ cm

Liam has two rectangular tiles like this.

11cm

5cm

He makes this L shape.

___ **cm**