1

[2012]

Kirsty, Seb and Mina made toffee apples to sell at the school fair.

They made **80** toffee apples altogether.

Kirsty sold **12** toffee apples.

Seb sold **25** toffee apples.

Mina sold **17** toffee apples.

How many toffee apples were left?

Kirsty sold her 12 toffee apples for 50p each.

How much money did she collect?
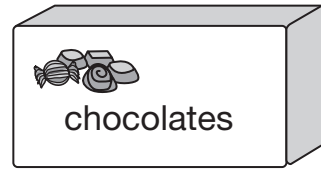
[3 marks]

2

Joe has a box of 72 chocolates.

chocolates

He gives 18 of the chocolates to his friends.

How many chocolates are left in the box?

Holly has a box of mints.

mints

She has 10 friends.

She gives them 5 mints each.

She has 13 mints left.

How many mints were in the box at the start?

[2 marks]

Alan has **45 beans**.

He plants **3 beans** in each of his pots.

How many pots does he need?

pots

Leila puts **4 seeds** in each of her pots.

She uses **6 pots** and has **1 seed** left over.

How many seeds did she start with?

[2 marks]

Tom and Nadia have 16 cards each.

Tom gives Nadia **12** of his cards.

How many cards do Tom and Nadia each have now?

Tom [ ] **Nadia** [ ]

Lucy also has 16 cards.

She gives a **quarter** of her cards to Kiran.

How many cards does Lucy give to Kiran?
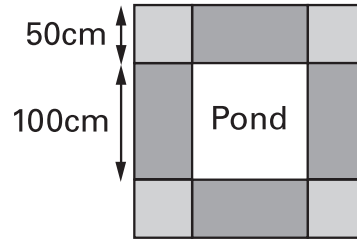
[ ]

[2 marks]

5

Mr Singh buys paving slabs to go around his pond.

PAVING SLABS

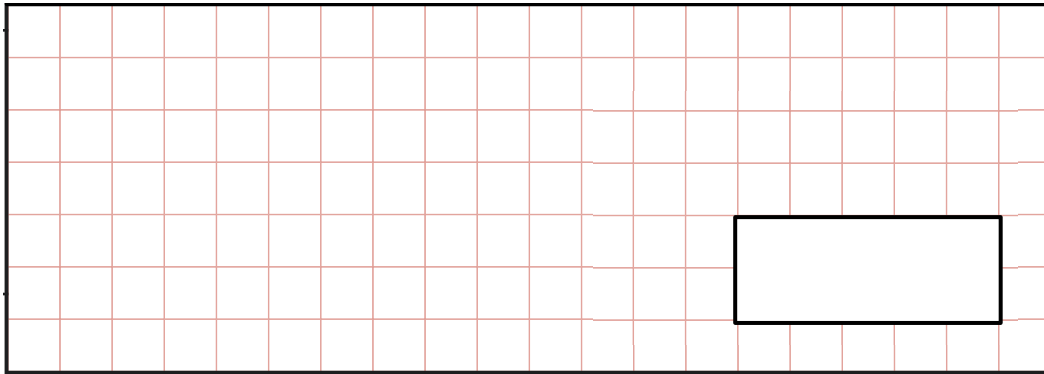**£1.95** each   Square slabs
                    50cm by 50cm

£3.50 each   Rectangular slabs
                    100cm by 50cm

50cm

100cm   Pond

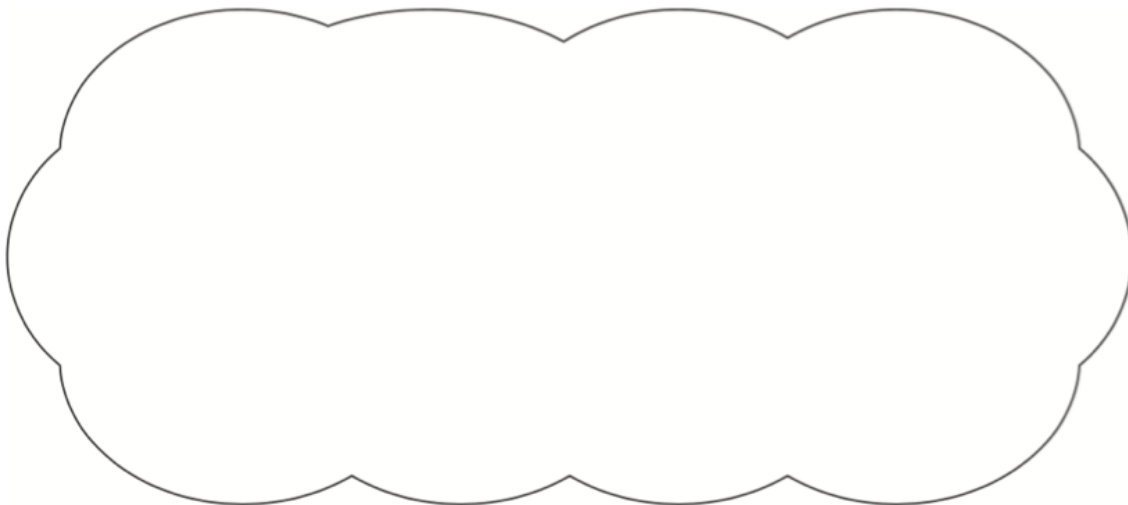He buys 4 rectangular slabs and 4 square slabs.

What is the total cost of the slabs he buys?

Mr Singh says,

'It would cost more to use square slabs all the way round.'
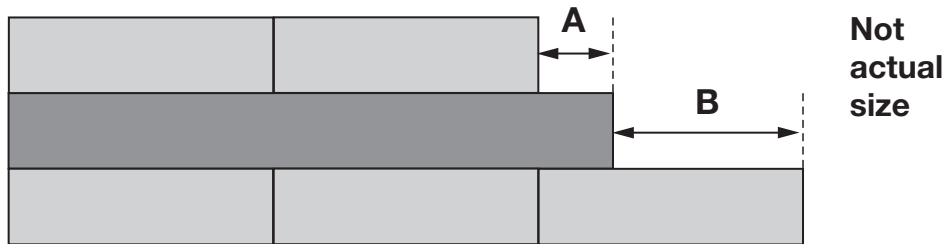
Explain why he is correct.

[3 marks]

6

Liam has two different sizes of rectangle.

45 cm

20 cm

He makes this pattern with them.

A

B

Not actual size

Calculate the lengths of **A** and **B**.
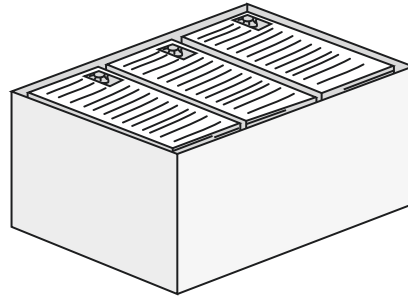
A = [　　　] **cm**

B = [　　　] **cm**

[2 marks]

7

There are 2,400 leaflets in a box.

William and Ally take 450 leaflets each.

Adam and Chen share the rest of the leaflets equally.

How many leaflets does Adam get?

Show your method

[2 marks]

8

Mina has 5 more marbles than Kirsty.

Kirsty has 2 more marbles than Seb.

Altogether they have 30 marbles.

How many marbles does each child have?
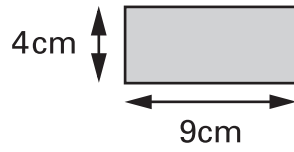
Mina   Kirsty   Seb
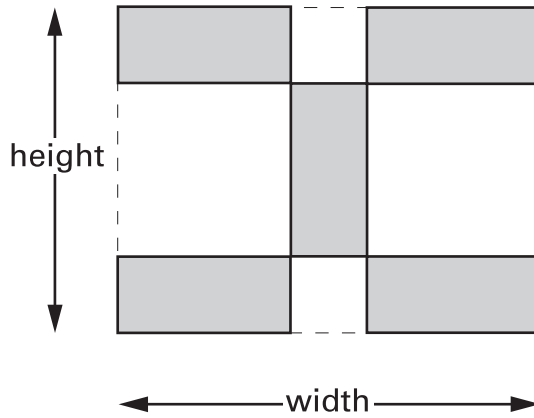
[2 marks]

Kim has some rectangular tiles.

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

4cm

9cm

She makes a design with them.

height

width

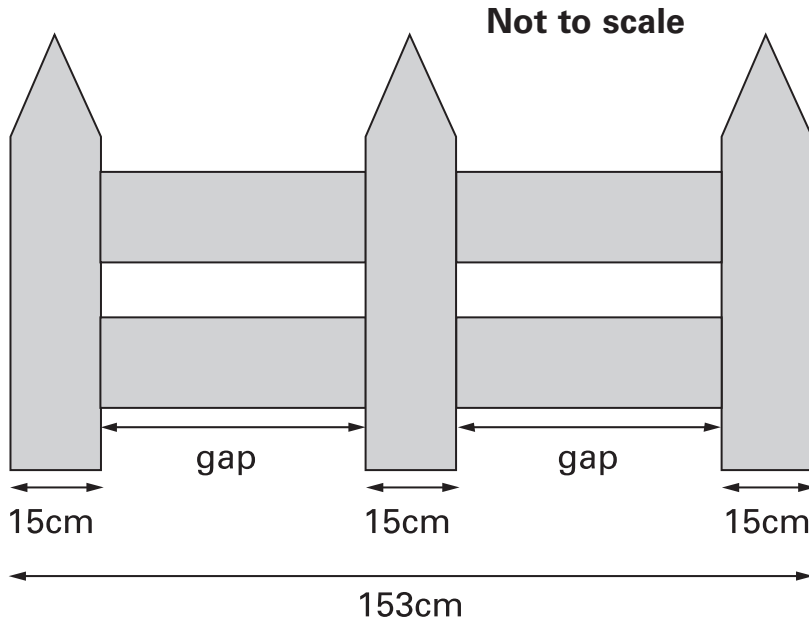Calculate the **width** and **height** of her design.

width = ☐ cm   height = ☐ cm

[2 marks]

This fence has three posts, equally spaced.

Not to scale

gap

gap

15cm

15cm

15cm

153cm

Each post is **15 centimetres** wide.

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

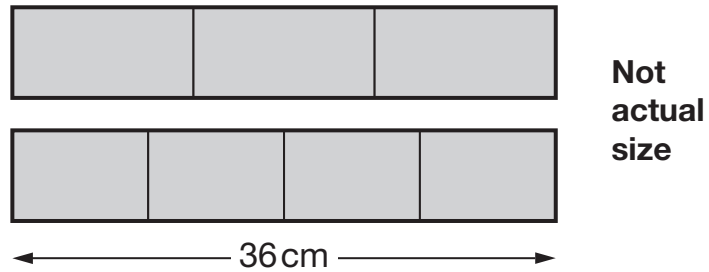Calculate the length of **one gap** between two posts.
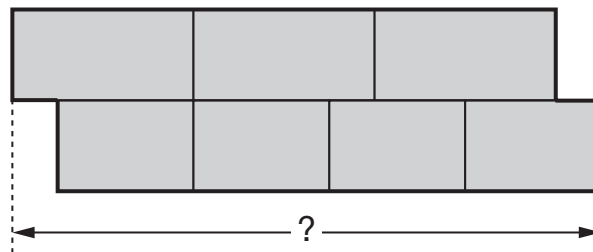
Show your method

[2 marks]

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.

Not actual size
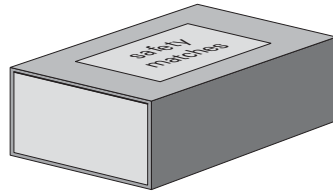
36 cm

Joe uses the two strips to make this shape.

?

What is the total length of Joe's shape?

Show your method

[2 marks]

12

A box contains 220 matches and weighs 45 grams.

The empty box weighs 12 grams.

Calculate the weight of 1 match.

Show your method

[2 marks]

13

A 5p coin has a diameter of 1.8 centimetres.

1.8 cm

Holly makes a straight line of 5p coins worth £10

£10

How long is Holly's line?
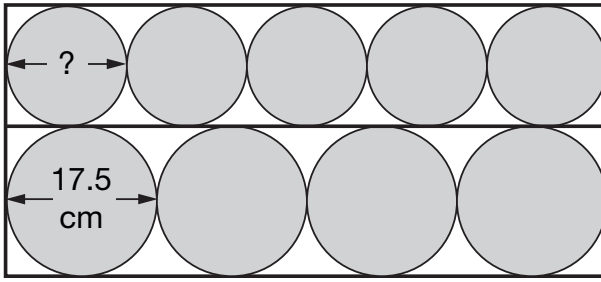Give your answer in metres.

Show your method

[2 marks]

14

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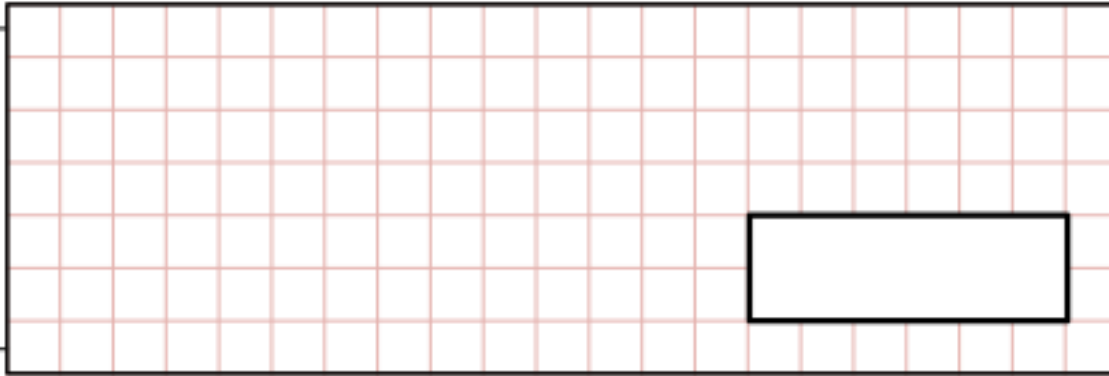

**Not
actual size**

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

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

Show your method

[2 marks]

15

Two rolls, A and B, each have 45 metres of wire on them.
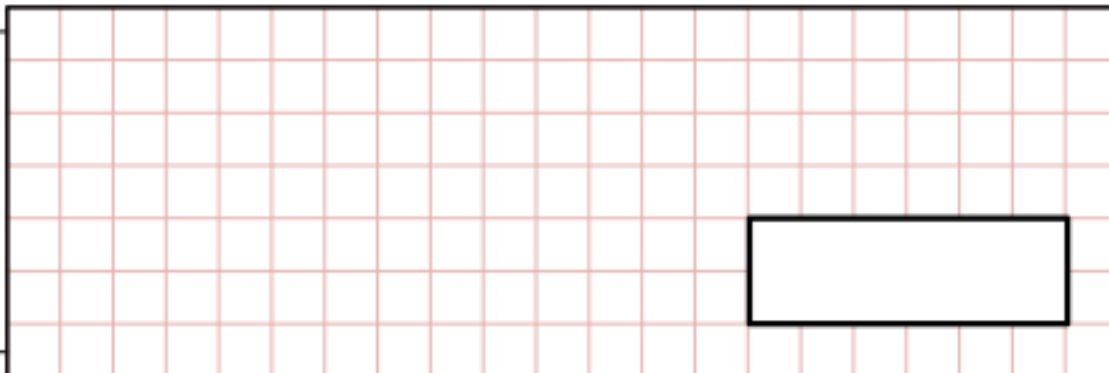

roll A   roll B

The wire on roll A is cut into 1.25m lengths.

The wire on roll B is cut into 2.25m lengths.

How many more lengths of wire are cut from roll A than roll B?

Show your method

[2 marks]