

WORDED QUESTIONS 2

CONTENT DOMAIN REFERENCES:
C4, C8

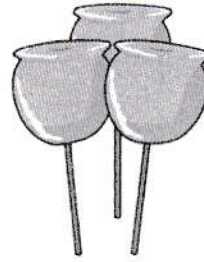
KS2 SATS

PRACTICE QUESTIONS BY TOPIC

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

[2012]

They made **80** toffee apples altogether.

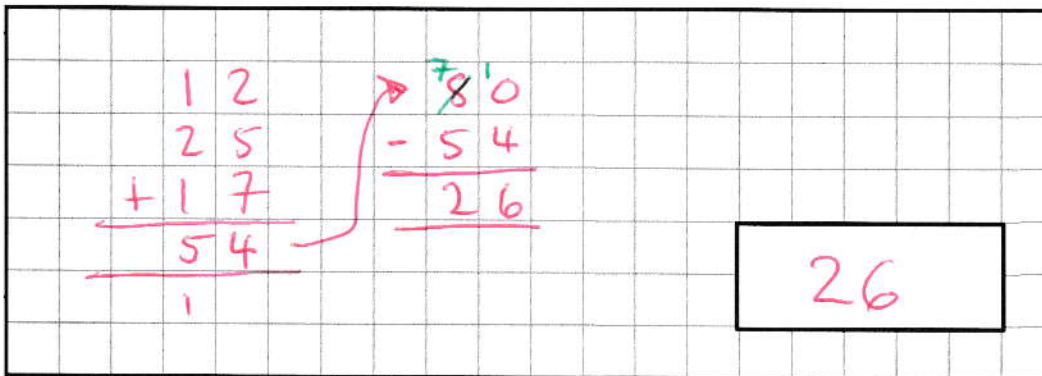


Kirsty sold **12** toffee apples.

Seb sold **25** toffee apples.

Mina sold **17** toffee apples.

How many toffee apples were left?



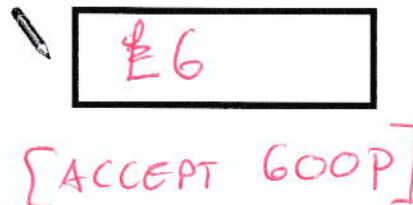
Handwritten calculation on grid paper:

$$\begin{array}{r} 12 \\ 25 \\ + 17 \\ \hline 54 \\ \hline 1 \end{array}$$
$$\begin{array}{r} 80 \\ - 54 \\ \hline 26 \end{array}$$

The result 26 is boxed.

Kirsty sold her 12 toffee apples for 50p each.

How much money did she collect?



Handwritten answer: **£6**

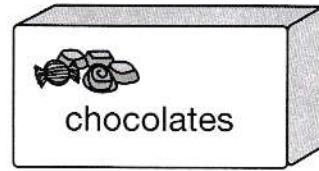
[ACCEPT 600P]

[4 marks]

2

Joe has a box of 72 chocolates.

[2011]



He gives 18 of the chocolates to his friends.

How many chocolates are left in the box?

$$\begin{array}{r} 72 \\ - 18 \\ \hline 54 \end{array}$$



Holly has a box of mints.



She has 10 friends.

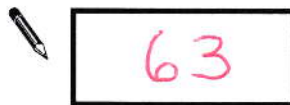
She gives them 5 mints each.

$$\left. \begin{array}{l} \text{She has 10 friends.} \\ \text{She gives them 5 mints each.} \end{array} \right\} 10 \times 5 = 50$$

She has 13 mints left.

How many mints were in the box at the start?

$$\begin{array}{r} 50 \\ + 13 \\ \hline 63 \end{array}$$



[2 marks]



Alan has **45 beans**.

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

How many pots does he need?

$$3 \overline{)45} \begin{array}{r} 15 \\ \underline{30} \\ 15 \end{array}$$



15 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?

$$6 \times 4 = 24$$

$$24 + 1 = \underline{\underline{25}}$$



25

[2 marks]

[2003]



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?

$$\frac{1}{4} \text{ of } 16 = 4$$



[2 marks]

5

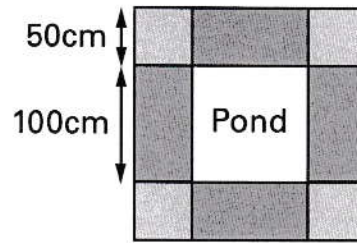
Mr Singh buys paving slabs to go around his pond.

[2002]

PAVING SLABS

£1.95 each Square slabs
50cm by 50cm

£3.50 each Rectangular slabs
100cm by 50cm



He buys 4 rectangular slabs and 4 square slabs.

What is the total cost of the slabs he buys?

$\begin{array}{r} 350 \\ \times 4 \\ \hline 1400 \\ \hline \end{array}$	$\begin{array}{r} 195 \\ \times 4 \\ \hline 780 \\ \hline \end{array}$	$\begin{array}{r} 1400 \\ + 780 \\ \hline 2180 \\ \hline \end{array}$
		$\boxed{\pounds 21.80}$

Mr Singh says,

'It would cost more to use square slabs all the way round.'

Explain why he is correct.

BECAUSE HE WOULD NEED
12 SQUARE SLABS AND
 $195 \times 12 = 2340$
 $= \underline{\underline{\pounds 23.40}}$

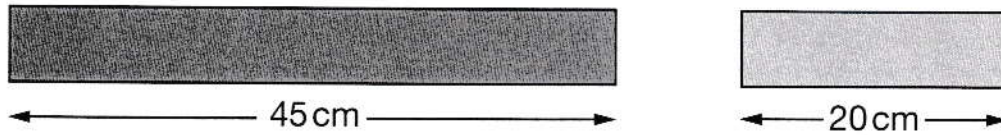
$$\begin{array}{r} 195 \\ \times 12 \\ \hline 390 \\ 1950 \\ \hline 2340 \\ \hline \end{array}$$

[3 marks]

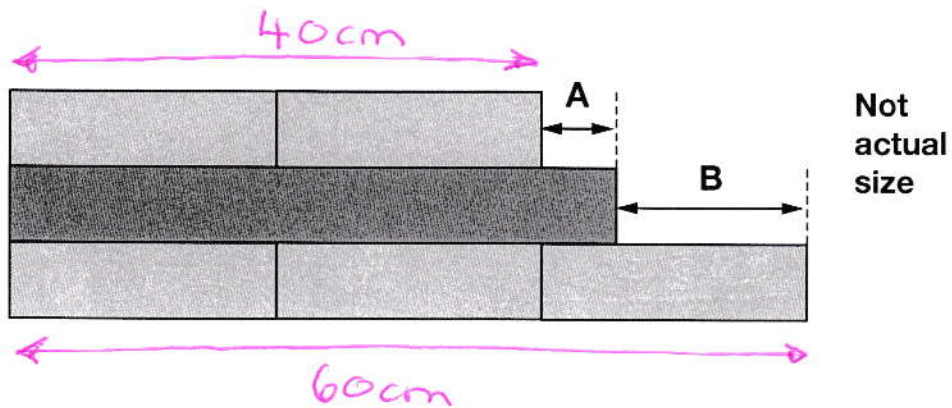
6

Liam has two different sizes of rectangle.

[2010]



He makes this pattern with them.

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

$$A \text{ is } 45 - 40$$

$$B \text{ is } 60 - 45$$

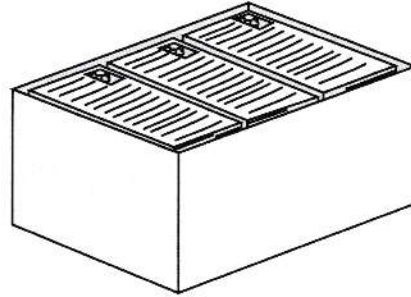
$$A = \boxed{5} \text{ cm}$$

$$B = \boxed{15} \text{ cm}$$

[2 marks]

7

[2017]



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

$$2 \times 450 = 900$$

$$\begin{array}{r} 2400 \\ - 900 \\ \hline 1500 \end{array}$$

$$1500 \div 2 = 750$$

750

[2 marks]

8

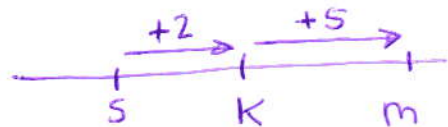
[2012]



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?

TRY $S = 4$ (GUESS)

$$S = 4 \Rightarrow 4 + 6 + 11 = 21 \quad (\text{9 START SO ADD 3 TO EVERYONE!})$$

[S] [K] [M]

Mina

14

Kirsty

9

Seb

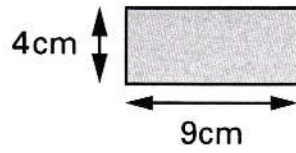
7

[2 marks]

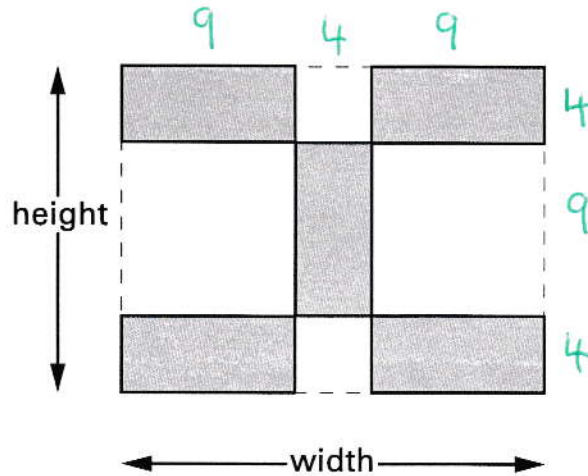
Kim has some rectangular tiles.

[2000]

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

$$[9+4+9]$$

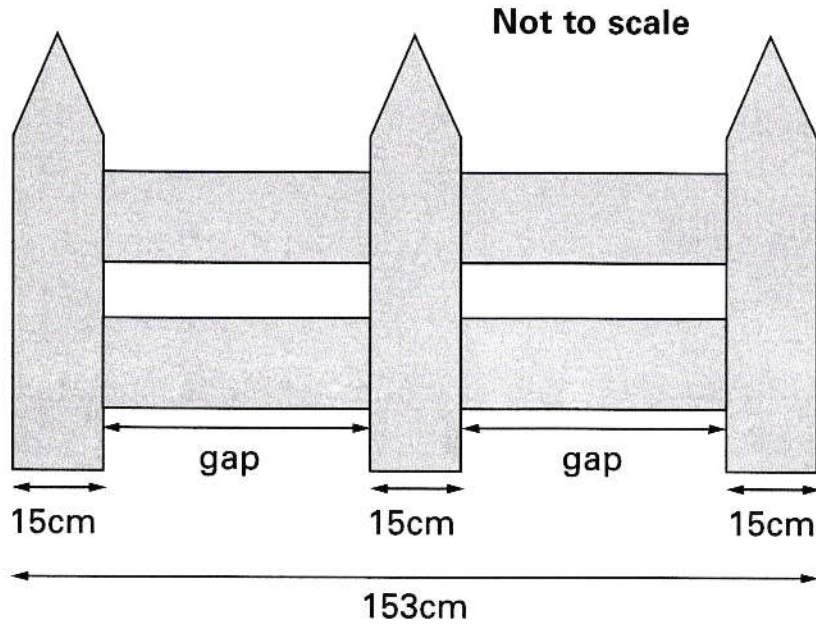
$$[4+9+4]$$

[2 marks]

10

This fence has three posts, equally spaced.

[2003]



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

$$\begin{array}{r} 15 \\ \times 3 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 153 \\ - 45 \\ \hline 108 \end{array} \quad \text{[TWO GAPS]}$$

$$108 \div 2 = \underline{\underline{54}}$$

54 cm

[2 marks]

11

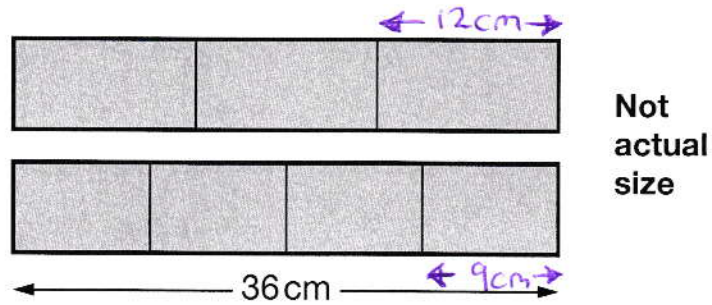
Joe has two strips of card.

[2011]

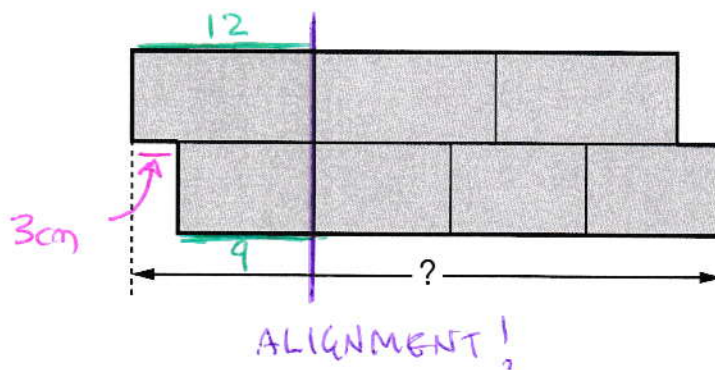
Each strip is 36 centimetres long.

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?

Show your method

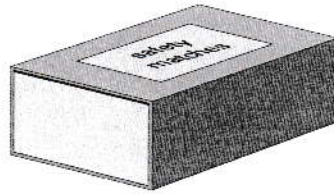
$$36 + 3$$

39cm

[2 marks]

12

[2005]



A box contains 220 matches and weighs 45 grams.

The empty box weighs 12 grams.

Calculate the weight of 1 match.

Show your method

$$\begin{array}{r} 45 \\ - 12 \\ \hline 33 \end{array} \rightarrow \frac{33}{220} = \frac{3}{20} = \frac{15}{100}$$

0.15 g

[2 marks]

13

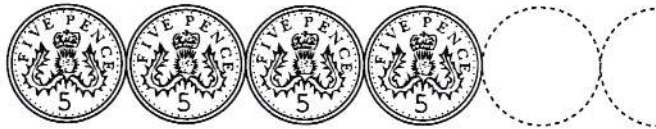
[2011]

A 5p coin has a diameter of 1.8 centimetres.



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

$$1000 \div 5 = 200 \text{ COINS}$$

$$200 \times 1.8 = 20 \times 18$$

$$= \underline{\underline{360 \text{ cm}}}$$

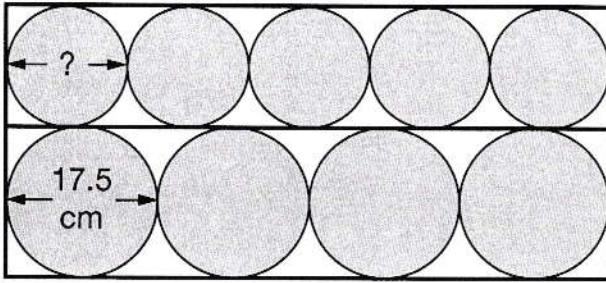
3.6 m

[2 marks]

14

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

[2006]



Not
actual size

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

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

Show your method

$$\begin{array}{r} \text{WIDTH} = 17.5 \\ \times 4 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 14 \\ 5 \overline{)70} \end{array}$$

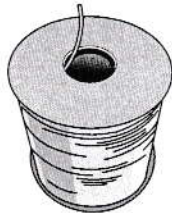
14 cm

[2 marks]

15

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

[2013]



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

$$\frac{45}{1.25} = \frac{180}{5} = \underline{\underline{36}}$$

$$\frac{45}{2.25} = \frac{180}{9} = \underline{\underline{20}}$$

$$36 - 20 = \underline{\underline{16}}$$

16

[2 marks]