# **MATHEMATICS**

**KEY STAGE 2 2003** 

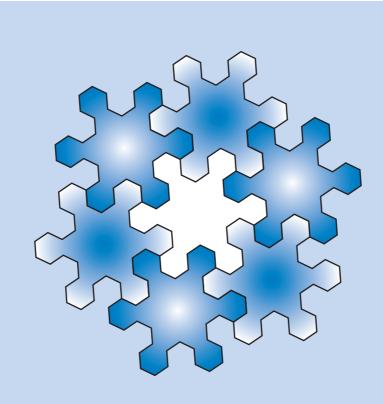
TEST B

3-5

**CALCULATOR ALLOWED** 

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
TOTAL	

<b>BORDERLINE</b>	
CHECK	



**First Name** 

**Last Name** 

**School** 

# Instructions

You may use a calculator to answer any questions in this test.

Work as quickly and as carefully as you can.

You have 45 minutes for this test.

If you cannot do one of the questions, go on to the next one.

You can come back to it later, if you have time.

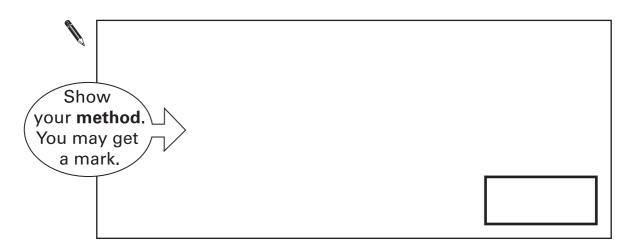
If you finish before the end, go back and check your work.

## Follow the instructions for each question carefully.

This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.

# Some questions have an answer box like this:



For these questions you may get a mark for showing your method.

Write in the missing numbers.



37 ×



111



150

21

÷

1 mark

1 mark

1 mark

Here are five digit cards.









5

Use all five digit cards once to make this sum correct.

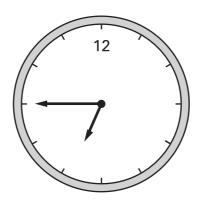






6 0

Here is a clock.



How many minutes is it until this clock shows 7:30?



Here is another clock.

14:53

What time will the clock show in 20 minutes?



1 mark

3b

There are 5 balloons in a packet.

There are 18 packets in a box.





How many balloons are there altogether in a box?



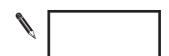
4a 1 mark

There are 5 balloons in a packet.

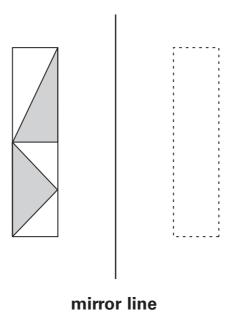
Kofi needs 65 balloons.



How many packets does he need?

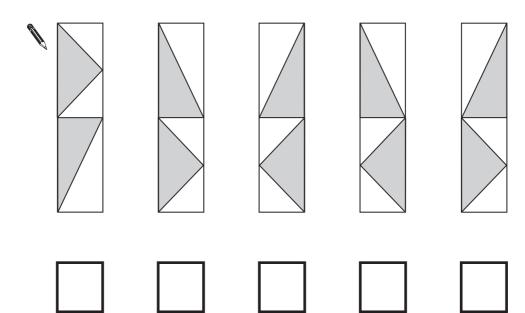






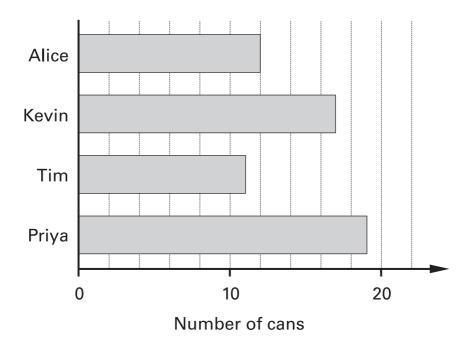
Which **one** of the designs below is the reflection of the design in the mirror line?

Tick ( $\checkmark$ ) the correct design.



Some children collect cans for recycling.

Here is a chart of how many cans they collect in the first week.



How many cans has Kevin collected?



Alice's target is to collect 30 cans.

How many **more** cans does Alice need to reach her target?





1 mark

Hayley makes a sequence of numbers.

Her rule is

#### 'find half the last number then add 10'

Write in the next two numbers in her sequence.

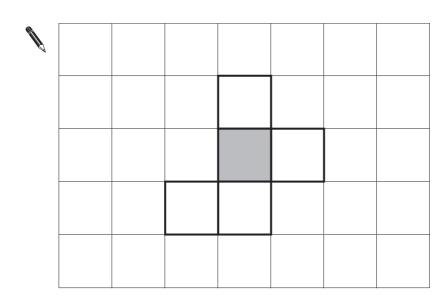
36 28 24

7i
7ii
2 marks

8 Here is the net of a cube with no top.

The shaded square shows the bottom of the cube.

Draw an extra square to make the net of a cube which does have a top.



**>** '

These are the prices in a fish and chip shop.

Fish.....£1.95

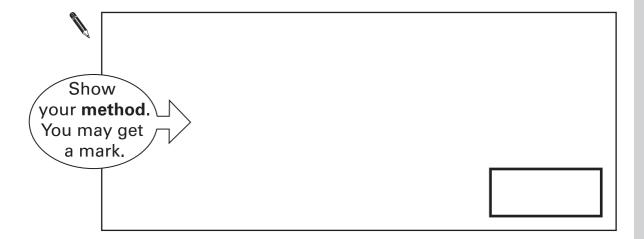
Chips small bag......55p
large bag......70p

Peas......38p

## Luke has £3

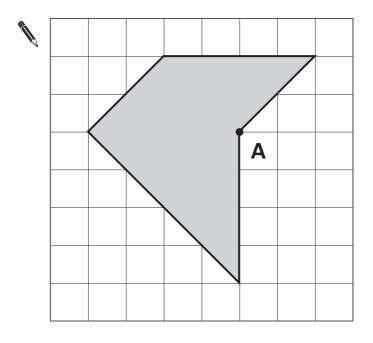
He wants to buy one fish, peas and two large bags of chips.

How much more money does he need?



10

Draw **two straight lines** from point **A** to divide the shaded shape into a square and two triangles.



1 mark

11



The temperature inside an aeroplane is 20°C.

The temperature **outside** the aeroplane is **-30°C**.

What is the difference between these temperatures?

degrees

Karen makes a fraction using two number cards.

She says,

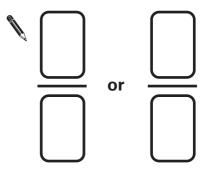
'My fraction is equivalent to  $\frac{1}{2}$ 



One of the number cards is 6'

What could Karen's fraction be?

Give both possible answers.



2 marks

Write what the **three** missing digits could be in this calculation.

Here is a diagram for sorting numbers.

Write one number in each white section of the diagram.

	less than 1000	1000 or more
multiples of 20		
not multiples of 20		

Write these lengths in order, starting with the shortest.

 $\frac{1}{2}$  m 3.5cm

25mm 20cm

shortest

14i

2 marks

In this sequence each number is double the previous number.

Write in the missing numbers.

3

12

24

48

2 marks

17

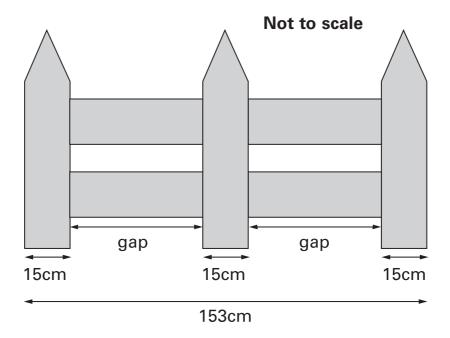


Here are the **start** and **finish** times of some children doing a sponsored walk.

	Start time	Finish time
Claire	9:30	10:55
Ruth	9:35	11:05
Dan	9:40	11:08
Tim	9:45	11:05

How much longer did Claire take than Tim?

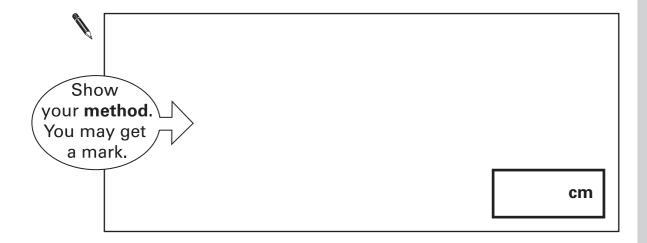
minutes



Each post is 15 centimetres wide.

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

Calculate the length of **one gap** between two posts.



18i

2 marks

Total out of 5

Calculate  $\frac{3}{8}$  of 980



19 1 mark

20

k, m and n each stand for a whole number.

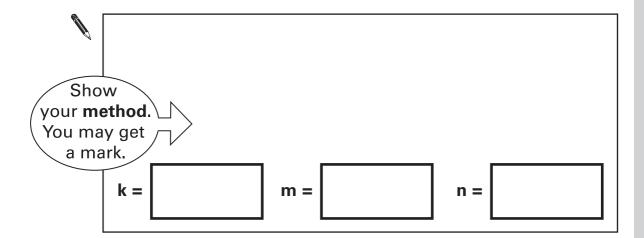
They add together to make 1500

$$k + m + n = 1500$$

m is three times as big as n.

k is twice as big as n.

Calculate the numbers  $\mathbf{k}$ ,  $\mathbf{m}$  and  $\mathbf{n}$ .



00:

20i

2 marks



Cheddar cheese costs £7.50 for 1kg.

Marie buys 200 grams of cheddar cheese.

How much does she pay?



1 mark

21bi

21bii

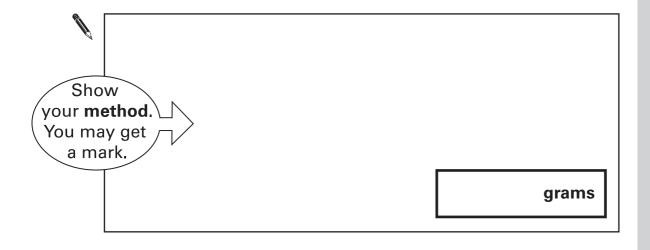
2 marks

Cream cheese costs £3.60 for 1kg.

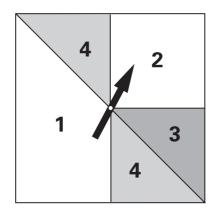
Robbie buys a pot of cream cheese for 90p.



How many grams of cream cheese does he buy?



Total out of 6



Look at these statements.

For each one put a tick  $(\checkmark)$  if it is **correct**. Put a cross (x) if it is **not correct**.

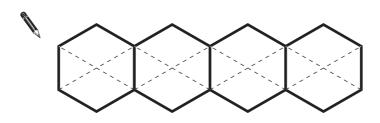
'4' is the <b>most likely</b> score.	
'2' and '4' are <b>equally likely</b> scores.	
Odd and even scores are equally like	ly.
A score of '3' or more is as likely as a score of less than '3'.	а

22i

2 marks

This diagram shows four regular hexagons.

Shade in one third of the diagram.



23 1 mark

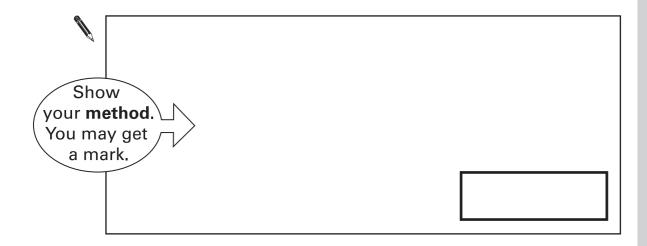
24



250 000 people visited a theme park in one year.

15% of the people visited in April and40% of the people visited in August.

How many people visited the park in the rest of the year?



24i
24i
2 marks

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QCA key stage 2 team, 83 Piccadilly, London W1J 8QA

## Order refs:

QCA/03/1014 (pupil pack)
QCA/03/1009 (mark schemes pack)