MATHEMATICS

KEY STAGE 2 2006

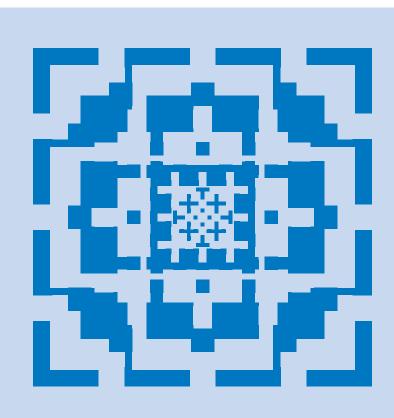
TEST B

3-5

CALCULATOR ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
21	
TOTAL	

BORDERLINE	
CHECK	

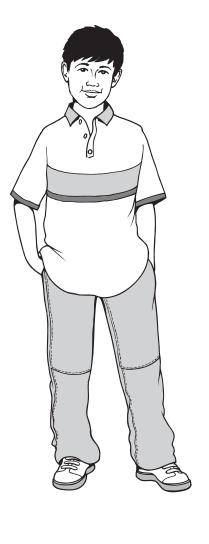


First Name

Last Name

School







Lin

David

Rosie

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.

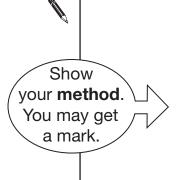
If you finish before the end, go back and check your work.

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.

1 i

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1 mark

2 Draw one line from **each calculation** on the left to the correct box on the right.

One has been done for you.

 $4 \times 5 \times 6$

greater than 100

$$56 + 27 + 17$$

less than 100

$$835 - 745$$

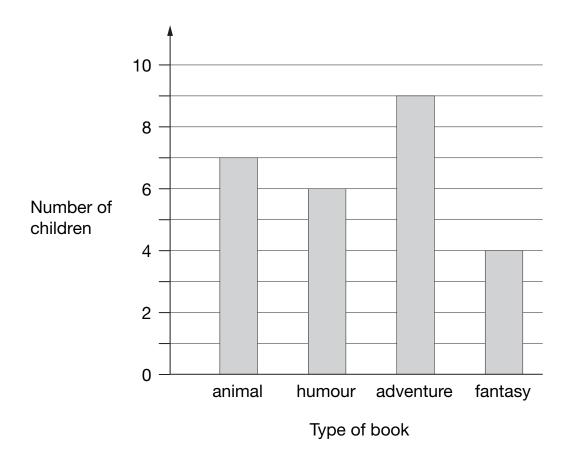
equal to 100

4000 ÷ 50

2 marks

Class 6 did a survey of their favourite types of story book.

Here are their results.



How many more children chose **adventure** books than **fantasy** books?

5



Five girls chose animal books.

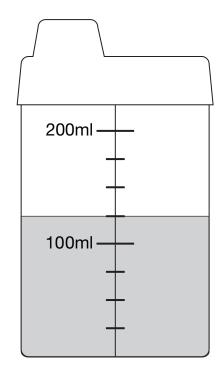
How many **boys** chose animal books?



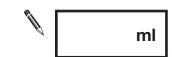
Each missing digit in this sum is a 9 or a 1

Write in the missing digits.

Here is a baby's drinking cup.



How many millilitres of water are in the cup?



These are the prices in a shoe shop.

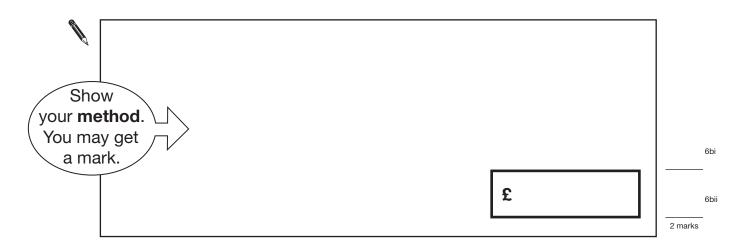


How much **more** do the boots cost than the trainers?



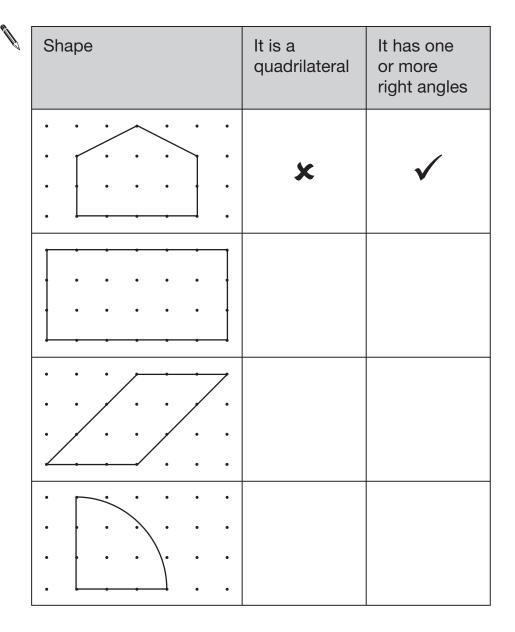
Rosie buys a pair of trainers and a pair of sandals.

How much change does she get from £50?



Put ticks (\checkmark) and crosses (x) on the chart to complete it correctly.

One has been done for you.



7a 1 mark

7b

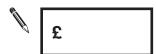
Forest School sells badges for charity.





For each badge sold, £1.20 is given to a charity.

How much does the charity get when 12 badges are sold?



88

1 mark

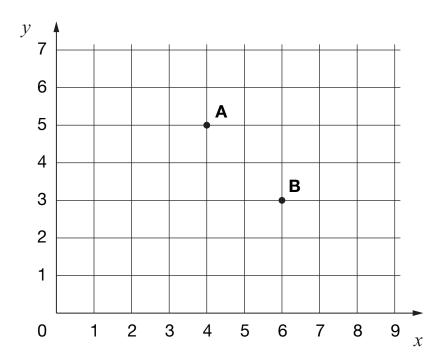
If the charity got £24, how many badges were sold?



8b

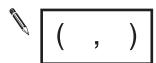
A, B, C and D are the vertices of a rectangle.

A and B are shown on the grid.



D is the point (3, 4)

Write the coordinates of point **C**.



1 mark

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Here is a number sentence.

Circle all the numbers below that make the number sentence correct.



30

40

50

60

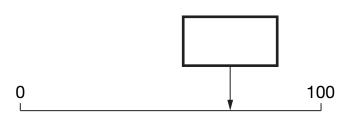
70

10

Here is a number line.

Estimate the number marked by the arrow.





11

1 mark

The numbers in this sequence increase by the same amount each time.

Write in the missing numbers.

1



13

12

Here is a sorting diagram with four sections, A, B, C and D.

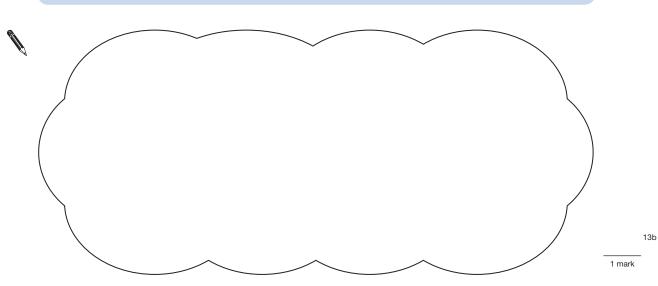
	multiple of 10	not a multiple of 10
multiple of 20	A	В
not a multiple of 20	С	D

Write a number that could go in section **C**.



Section **B** can never have any numbers in it.

Explain why.



£

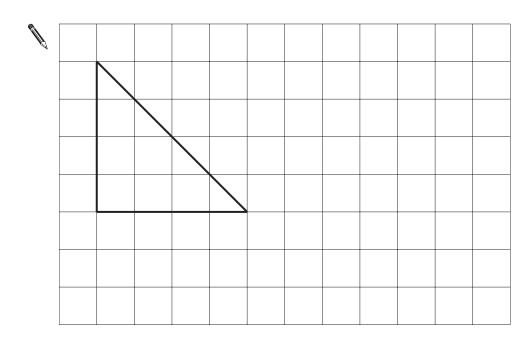
14

1 mark

Here is a triangle drawn on a square grid.

Draw a **rectangle** on the grid with the **same area** as the triangle.

Use a ruler.



15

Here is a cube.

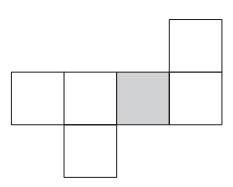
The cube is shaded all the way round so that the top half is grey and the bottom half is white.



Here is the net of the cube.

Complete the shading.





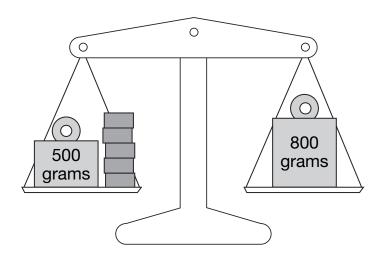
16i

1

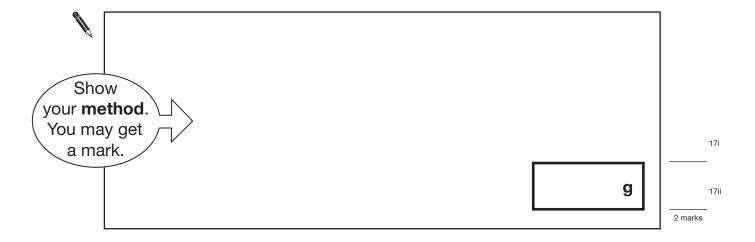
2 marks

Lin has five blocks which are all the same.

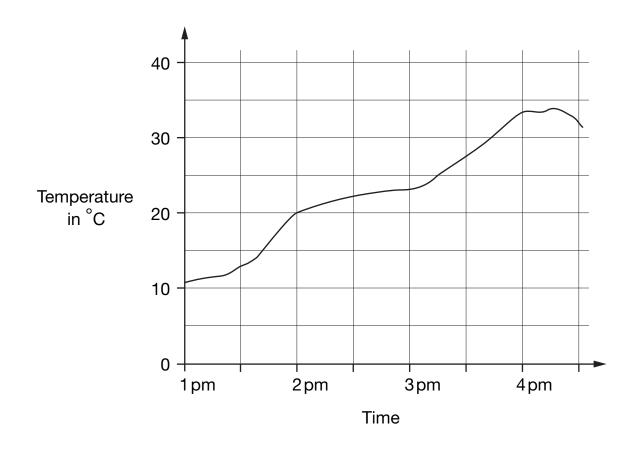
She balances them on the scale with two weights.



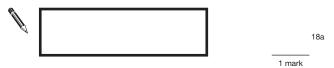
Calculate the weight of **one** block.



This graph shows the temperature in a greenhouse.



Use the graph to find the time when the temperature was 25°C.



Use the graph to find the difference between the temperature at 2 pm and the temperature at 4 pm.

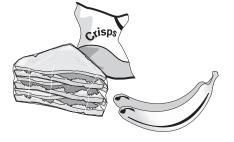


18b

David and his friends prepare a picnic.

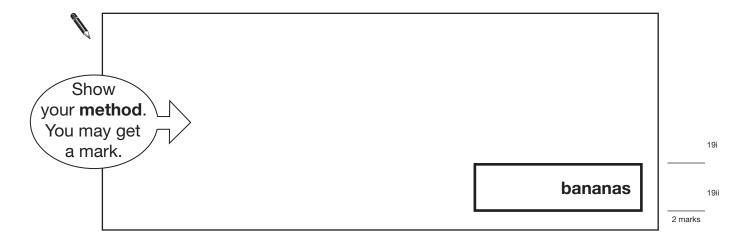
Each person at the picnic will get:

- 3 sandwiches
- 2 bananas
- 1 packet of crisps



The children pack 45 sandwiches.

How many **bananas** do they pack?



Write the answer to each of these calculations rounded to the **nearest whole number**.

One has been done for you.

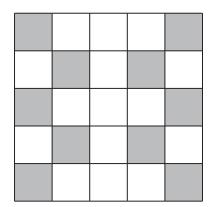
	to the nearest whole number
75.7 × 59	4466
7734 ÷ 60	
772.4 × 9.7	
20.34 × (7.9 – 5.4)	

20i

20i

2 marks

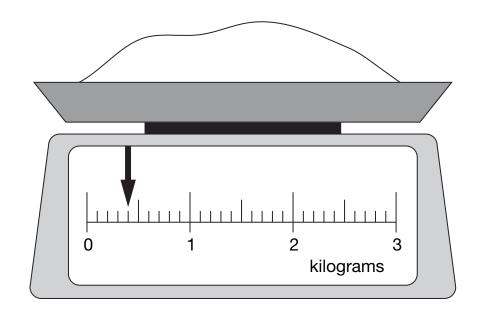
Here is a pattern on a grid.



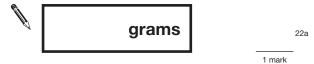
What **percentage** of the grid is shaded?



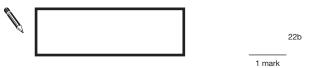
21



How many **grams** of flour are on the scale?



How much more flour must be added to the scale to make 1.6kg?



Circle the **two** prime numbers.

29

39

49

59

69

. .

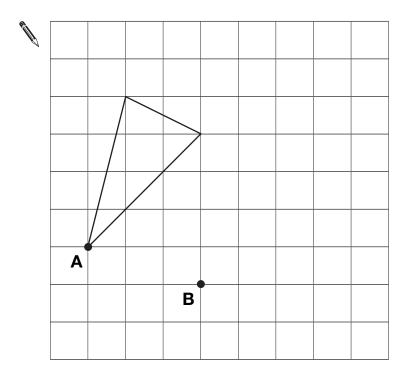
1 mark

Here is a triangle on a square grid.

The triangle is translated so that point ${\bf A}$ moves to point ${\bf B}$.

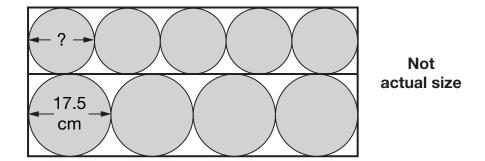
Draw the triangle in its new position.

Use a ruler.



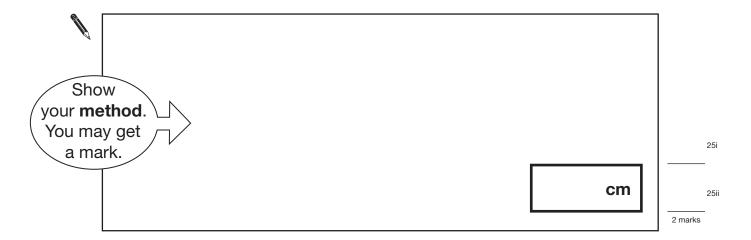
2

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



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

Calculate the diameter of a small circle.



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End of test

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