## Ma

## Mathematics test

## KEY STAGE

2

## LEVELS

3-5

## Test B

## Calculator allowed

First name

Last name
$\qquad$
$\qquad$
School


For marker's use only

| Page | Marks |
| :---: | :---: |
| 5 |  |
| 7 |  |
| 9 |  |
| 11 |  |
| 13 |  |
| 15 |  |
| 17 |  |
| 19 |  |
| 21 |  |
| 23 |  |
| TOTAL |  |
| Borderline check |  |



## 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.

261 246 255 209 275

Draw the reflection of the shaded shape in the mirror line.

Use a ruler.

mirror line

Write in the missing digits.



Measure accurately the length of the shortest side of this triangle.
Write your answer in centimetres.


This table shows the results.

|  | Girls | Boys |
| :--- | :---: | :---: |
| zebra | 9 | 3 |
| lion | 4 | 9 |
| giraffe | 7 | 4 |
| monkey | 8 | 7 |
| elephant | 6 | 5 |

How many more girls than boys chose giraffes?


How many more boys chose lions than elephants?


Which animal was chosen by the greatest number of children?
$\qquad$

Kate says,

'The time is closer to 11:00am than to 10:00am'.

Explain why Kate is correct.

$\qquad$

## Circle all the amounts that can be made with three coins.

$\mathbb{V}$
71p
$72 p$
73p
$74 p$
$75 p$

8 Here are five diagrams.

Look at each one.

Put a tick $(\checkmark)$ on the diagram if exactly $\frac{1}{2}$ of it is shaded.
Put a cross $(\mathbf{x})$ if it is not.


There are 20 pencils in a box.

## 8 20 Pencils

How many boxes of pencils are needed?


50 children need one pen each.

Pens are sold in packs of 4


How many packs of pens need to be bought?



Complete the sentences below.
One has been done for you.
A is a kite
s not a quadrilateral
$\qquad$ has only 2 right angles
$\qquad$ has 2 acute angles

11 Write these numbers in order of size, starting with the smallest.
3.01
13.0
0.31
1.30
3.1

smallest

12
The signs are missing from these number sentences.

Write in the missing signs, $+-\times$ or $\div$
The first has been done for you.





Kate's time is 13 seconds.

Jamie finishes 5 seconds before Kate.

Hassan finishes 3 seconds after Jamie.


What is Hassan's time in seconds?


14 Here are four triangles on a square grid.


Write the letters of the two isosceles triangles.

$\qquad$
$\qquad$

15 Some children each chose their favourite sport.
This chart shows the results.


## Which sport was chosen by the most children?


$\qquad$

How many more girls than boys chose basketball?


Write all the sports that were chosen by more boys than girls.


16 Hassan has a jug with some water in it.

He adds another 140 millilitres of water.

Draw a line to show the new level of water.



Kate and Jamie each have some money.

Altogether they have $£ 1.50$

Kate gives Jamie 10p so that they both have the same amount.

How much money did each have at the start?


18 Hassan scores 40 out of 80 in a test.

Kate scores $40 \%$ in the same test.

Who has the higher score? Circle Hassan or Kate.

## Hassan / Kate

Explain how you know.



Here is a shaded shape on a grid.
Jamie rotates the shape $90^{\circ}$ clockwise about the centre of the grid.

Draw the shaded shape in its new position.



The cost for using a minibus is $£ 1.36$ for each kilometre.

8 friends go on a 114 kilometre journey.

They share the cost equally.

How much does each person pay?


22 This graph shows the height of a candle as it burns.


Look at the graph.

## What is the height of the candle after 2 hours?



How long does the candle take to burn down from 16 cm to 4 cm ?


They each measure 16 centimetres by 50 centimetres.


She makes this design with four of the rectangles.


Work out the lengths $x$ and $y$.


24 Two whole numbers are each between 50 and 70

They multiply to make 4095

Write in the missing numbers.

$\qquad$
1 mark

25 The diagram shows three regular octagons joined together.

There is a dot at the centre of each octagon.


What fraction of the diagram is shaded?


26 A white square is painted in one corner of a grey square.

Each side of the white square is half the length of a side of the grey square.


What is the area of the grey section?


