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:

Show your method. You may get a mark.

For these questions you may get a mark for showing your method.
1. Circle the number that is closest to 250

   261  246  255  209  275

   1 mark

2. Draw the reflection of the shaded shape in the mirror line.
   Use a ruler.

   mirror line
3

The sum of two numbers is 100

Write in the missing digits.

\[3 \square + \square 3 = 100\]

1 mark

4

Measure accurately the length of the **shortest** side of this triangle.

Write your answer in centimetres.

\[\text{cm}\]

1 mark
Some children were asked to choose their favourite animal in the zoo. This table shows the results.

<table>
<thead>
<tr>
<th></th>
<th>Girls</th>
<th>Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>zebra</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>lion</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>giraffe</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>monkey</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>elephant</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

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?
The time is 10:35am.

Kate says,

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

Explain why Kate is correct.
Here are some amounts of money.

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

71p  72p  73p  74p  75p

Here are five diagrams.

Look at each one.

Put a tick (✓) on the diagram if exactly \( \frac{1}{2} \) of it is shaded. Put a cross (✗) if it is not.
50 children need **two** pencils each.

There are 20 pencils in a box.

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?
Look at these shapes.

A

B

C

D

E

F

Complete the sentences below.

One has been done for you.

_____ A _____ is a kite

_____ E _____ is not a quadrilateral

_____ C _____ has only 2 right angles

_____ F _____ has 2 acute angles

10 marks
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, + – × or ÷

The first has been done for you.

6 × 5 = 40 – 10

20 8 = 4 7

21 3 = 15 8
13 Jamie, Kate and Hassan run a 50m race.

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.

_______ and _______
Some children each chose their favourite sport.

This chart shows the results.

Which sport was chosen by the most children?

How many more girls than boys chose basketball?

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

Show your method. You may get a mark.

Kate had p Jamie had p
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**.

Explain how you know.
19 Calculate \( 1.2 \times (1.3 + 1.4) \times 1.5 \)

20 Here is a shaded shape on a grid.

Jamie rotates the shape 90° 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?

Show your method. You may get a mark.
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 16cm to 4cm?
Kate has some rectangles. They each measure 16 centimetres by 50 centimetres.

She makes this design with four of the rectangles.

Work out the lengths \(x\) and \(y\).

\[
x = \text{cm} \\
y = \text{cm}
\]
Two whole numbers are each **between 50 and 70**

They multiply to make 4095

Write in the missing numbers.

\[ \square \times \square = 4095 \]

1 mark

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?
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?

Show your method. You may get a mark.
End of test