Instructions

You **may not** 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 **working**.
You may get a mark.

For these questions you may get a mark for showing your working.
1. Write in the missing numbers.

\[
45 + \boxed{65} = 110
\]

\[
(4 \times 5) - \boxed{28} = 12
\]

\[
60 \times 3 = \boxed{180}
\]

2. Write these amounts of money in order of size, starting with the smallest amount.

\[
\begin{align*}
£5.40 & \quad £0.65 & \quad 72p & \quad £10 & \quad £2.88
\end{align*}
\]

smallest

1 mark

1 mark

1 mark

1 mark
This table shows the increase in bus fares.

<table>
<thead>
<tr>
<th>Bus Fares</th>
</tr>
</thead>
<tbody>
<tr>
<td>old fare</td>
</tr>
<tr>
<td>42p</td>
</tr>
<tr>
<td>52p</td>
</tr>
<tr>
<td>60p</td>
</tr>
<tr>
<td>75p</td>
</tr>
<tr>
<td>90p</td>
</tr>
<tr>
<td>£1.20</td>
</tr>
</tbody>
</table>

Sohan’s **new** bus fare is **72p**.

How much has his bus fare gone up?

Millie says,

‘*My bus fare has gone up by 10p*’.

How much is Millie’s **new** bus fare?

3a 1 mark

3b 1 mark
4. Draw the reflection of the shaded shape in the mirror line.

You may use a mirror or tracing paper.

5. Circle the number nearest to 1000

1060  1049  1100  960  899
Lewis makes a call from a telephone box.

He has £2 in coins.

He uses these five coins to make the call.

How much money has he got left from the £2?
8 Put a tick (✓) in each row to complete this table.

One has been done for you.

<table>
<thead>
<tr>
<th></th>
<th>greater than $\frac{1}{2}$</th>
<th>less than $\frac{1}{2}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{11}{20}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9 Write in the missing digits to make this correct.

\[
\begin{array}{c}
\ \\
\ \\
\ \\
\ \\
\end{array}
\times \quad 6
\]

\[
\begin{array}{c}
2 \quad 0 \quad 5 \quad 2
\end{array}
\]
This was the time on Selin’s watch when she set off for a walk.

What time did the watch show 20 minutes before this?

What time did it show an hour and a half after she set off for the walk?

Calculate $847 \div 7$
Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

9  17  20

This shape is three-quarters of a circle.

How many degrees is angle x?
Lee bought these **three books** in the sale for **£14.50**

How much money did he save altogether compared to the **full price** of the books?

Show your **working**. You may get a mark.

£
Here are two spinners, A and B.
Each one is a regular hexagon.

For each statement, put a tick (✓) if it is true.
Put a cross (✗) if it is not true.

Scoring ‘1’ is more likely on A than on B.  
Scoring ‘2’ is more likely on A than on B.  
Scoring ‘3’ is as equally likely on A as on B.

Zara spins both spinners.
The score on A is added to the score on B.
She says,

‘The sum of the scores on both spinners is certain to be less than 7’.

Is she correct?  
Circle Yes or No.

Yes / No

Explain how you know.

...........................
...........................
...........................
Calculate $1025 - 336$

Measure accurately the **longest side** of this shape.

Give your answer in millimetres.

Measure accurately the **smallest angle** in the shape.

Use a protractor (angle measurer).
18  Calculate $509 \times 24$

Complete these fractions to make each equivalent to $\frac{3}{5}$

\[
\frac{10}{\square} \quad \frac{15}{\square} \quad \frac{12}{\square}
\]

Show your working. You may get a mark.
A is the point \((10, 60)\)
B is the point \((20, 20)\)
M is the midpoint of line AB.

Write the coordinates of M.

C is on the \(x\)-axis, directly below B.

Write the coordinates of C.
Triangle ABC is isosceles and has a perimeter of 20 centimetres.

Sides AB and AC are each twice as long as BC.

Calculate the length of the side BC.

Do not use a ruler.

Show your working. You may get a mark.
This chart shows the amount of money spent in a toy shop in three months.

<table>
<thead>
<tr>
<th>Month</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>October</td>
<td>£10,000</td>
</tr>
<tr>
<td>November</td>
<td>£20,000</td>
</tr>
<tr>
<td>December</td>
<td>£30,000</td>
</tr>
</tbody>
</table>

How much more money was spent in the shop in December than in November?

Stepan says, ‘In November there was a 100% increase on the money spent in October’.

Is he correct? Circle Yes or No.

Yes / No

Explain how you can tell from the chart.

.................................................................

.................................................................

.................................................................

.................................................................
Here is a sequence of patterns made from squares and circles.

<table>
<thead>
<tr>
<th>number of squares</th>
<th>number of circles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
</tr>
</tbody>
</table>

The sequence continues in the same way.

Calculate how many squares there will be in the pattern which has 25 circles.

Show your working. You may get a mark.
24 Calculate 15% of 460

25 This is a centimetre grid.

Draw 3 more lines to make a parallelogram with an area of 10cm²

Use a ruler.