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:

Show your method. You may get a mark.

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

35 × [ ] = 140

633 − [ ] = 34

2 Draw one line from each calculation on the left to the correct box on the right. One has been done for you.

11 × 11
4 × 5 × 6
56 + 27 + 17
835 − 745
4000 ÷ 50

greater than 100
less than 100
equal to 100
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?

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.

\[\square \square + \square \square + \square \square = 201\]

Here is a baby’s drinking cup.

How many millilitres of water are in the cup?

\[\square \square \text{ ml}\]
These are the prices in a shoe shop.

- boots: £45.50
- sandals: £12.75
- trainers: £34.99

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?

Show your method. You may get a mark.

£
Put ticks (✓) and crosses (✗) on the chart to complete it correctly.

One has been done for you.

<table>
<thead>
<tr>
<th>Shape</th>
<th>It is a quadrilateral</th>
<th>It has one or more right angles</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Shape 1]</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>![Shape 2]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>![Shape 3]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>![Shape 4]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For each badge sold, £1.20 is given to a charity.

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

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

Here is a number sentence.

\(? + 27 > 85\)

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

30 40 50 60 70
Here is a number line.

Estimate the number marked by the arrow.

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

Write in the missing numbers.
Here is a sorting diagram with four sections, A, B, C and D.

<table>
<thead>
<tr>
<th></th>
<th>multiple of 10</th>
<th>not a multiple of 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>multiple of 20</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>not a multiple of 20</td>
<td>C</td>
<td>D</td>
</tr>
</tbody>
</table>

Write a number that could go in section C.

Section B can never have any numbers in it.

Explain why.
Calculate $\frac{3}{4}$ of £15

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.
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.
Lin has five blocks which are all the same.

She balances them on the scale with two weights.

Calculate the weight of one block.

Show your method. You may get a mark.
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.
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?

Show your **method**. You may get a mark.
20 Write the answer to each of these calculations rounded to the nearest whole number.

One has been done for you.

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>75.7 × 59</td>
<td>4466</td>
</tr>
<tr>
<td>7734 ÷ 60</td>
<td></td>
</tr>
<tr>
<td>772.4 × 9.7</td>
<td></td>
</tr>
<tr>
<td>20.34 × (7.9 − 5.4)</td>
<td></td>
</tr>
</tbody>
</table>

21 Here is a pattern on a grid.

What percentage of the grid is shaded?
Here is some flour on a weighing scale.

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

How much more flour must be added to the scale to make 1.6kg?
23. Circle the two prime numbers.

29  39  49  59  69

24. Here is a triangle on a square grid.

The triangle is translated so that point A moves to point B.

Draw the triangle in its new position.

Use a ruler.
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.

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