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. Draw lines to join all the pairs of number cards which have a **difference of 30**

One has been done for you.

- 100
- 180
- 150
- 170
- 200
- 70
- 250
- 330
- 300
- 220

2. Circle three numbers that add to make a **multiple of 10**

- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
Robbie collected information about the colours of some bikes.

Here are his results.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Number of bikes</th>
</tr>
</thead>
<tbody>
<tr>
<td>green</td>
<td>4</td>
</tr>
<tr>
<td>red</td>
<td>7</td>
</tr>
<tr>
<td>blue</td>
<td>12</td>
</tr>
<tr>
<td>pink</td>
<td>3</td>
</tr>
</tbody>
</table>

This bar graph shows the information from the table.

Fill in all the missing labels.
These are the radio programmes one morning.

7:00   Music show  
7:55   Weather report  
8:00   News  
8:15   Travel news  
8:25   Sport  
8:45   Holiday programme

Josh turns the radio on at 7:25am.

How many minutes does he have to wait for the Weather report?

\[ \text{minutes} \]

The Holiday programme lasts for 40 minutes.

At what time does the Holiday programme finish?

\[ \text{am} \]
5 Calculate $56 \div 4$

6 Here are some shaded shapes on a square grid.

Write the letters of the two shapes which are hexagons.

A

B

C

D

E

Write the letters of the two shapes which have right angles.

........................ and ........................

........................ and ........................
A shop sells candles.

plain candles 35p each  
star candles 60p each  
stripe candles 85p each

Sapna buys 4 star candles and 2 stripe candles.

How much does she pay altogether?

Show your working. You may get a mark.

Special offer
Buy 10 candles and get 50p off.

Josh buys 10 plain candles in the special offer.

How much does he pay for the 10 candles?
Calculate $1202 + 45 + 367$

Here are some digit cards.

2 4 6 6

Write all the three-digit numbers, greater than 500, that can be made using these cards.

One has been done for you.

626
Tick (✓) the two numbers which have a total of 10

Tick (✓) 9.09 and 0.99

The diagram is made of squares.
What fraction of the diagram is shaded?
12 Write the correct sign $>$, $<$ or $=$ in each of the following.

$$(10 + 5) - 9 \quad (10 + 9) - 5$$

$$(3 \times (4 + 5)) \quad (3 \times 4) + 5$$

$$(10 \times 4) \div 2 \quad 10 \times (4 \div 2)$$

13 Here is part of a shape on a square grid.

Draw two more lines to make a shape which has a line of symmetry.

Use a ruler.
Sapna makes up a game using seven cards.

Here are the cards.

1 2 3 4 5 6 7

Josh picks a card without looking.

If Josh picks an **odd** number then Sapna scores a point.
If Josh picks an **even** number then Josh scores a point.

**Is this a fair game?**
Circle Yes or No.

**Yes / No**

**Explain how you know.**
Class 6 count how many seeds they find under two trees. They show the data in a graph.

How many seeds did they find in week 3 **altogether**?

\[ \text{seeds} \]

In **how many weeks** did they find more than 40 chestnut seeds?

\[ \text{weeks} \]
Here are four diagrams.

On each one put a tick (✓) if it is a net of a cube. Put a cross (✗) if it is not.
Look at this star.

Use a protractor (angle measurer) to measure angle $b$.

Use a ruler to measure **accurately** the **width** of the star, from $P$ to $Q$.

Give your answer in **millimetres**.

$\text{mm}$

$\text{°}$
This pie chart shows how the children in Class 6 best like their potatoes cooked.

32 children took part in the survey.

Look at the four statements below.

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

1. 10 children like chips best.  
   ✓

2. 25% of the children like mashed potatoes best.  
   ✓

3. \( \frac{1}{5} \) of the children like roast potatoes best.  
   ✓

4. 12 children like jacket potatoes best.  
   ✓
Find two square numbers that total 45

\[\square + \square = 45\]

Calculate \(143 \times 37\)

Show your working. You may get a mark.
Here are four statements.

For each statement put a tick (✓) if it is possible. Put a cross (✗) if it is impossible.

A triangle can have 2 acute angles. ✓
A triangle can have 2 obtuse angles. ✓
A triangle can have 2 parallel sides. ✓
A triangle can have 2 perpendicular sides. ✓

Write these fractions in order of size starting with the smallest.

\[
\frac{3}{4}, \quad \frac{3}{5}, \quad \frac{9}{10}, \quad \frac{17}{20}
\]

smallest
A and B are two numbers on the number line below.

The difference between A and B is 140

Write the values of A and B.

Show your working. You may get a mark.

A = B =
Josh has some tiles.

Each tile is 10cm long.

Two tiles fitted together are 18cm long.

Calculate the length of five tiles fitted together.

Show your working. You may get a mark.

cm
End of test