First name ________________________________

Last name ________________________________

School ________________________________

Class ________________________________

Date of birth ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Date of test ☐ ☐ ☐ 2015

Total score ☐ (maximum 36)
1. \[25\% \text{ of } 200g = \boxed{50}g\]

2. Tomato plants are sold in trays of 12

   Dai wants 100 tomato plants.

   How many trays should he buy?

   \[\boxed{5}\] trays

3. \[\boxed{30} \div 3 + 40 = 100\]
4. Hiring cost
£32 for
every 30 minutes

How much is the hiring cost for 2$\frac{1}{2}$ hours?

£

5. $1000 - 19.3 + 24.7 = $

6. Circle the value below that is equivalent to 4%.

4.0 0.4 4.00 0.04 0.004

7. Insert one pair of brackets to make the calculation correct.

$90 \times 4 + 6 \div 2 = 450$
20% of 60 = 40% of $oxed{}$

Graph to change Canadian dollars to £

32 Canadian dollars = £$oxed{}$

Canadian dollars = £100
Mrs Jones wants to buy the jacket, skirt, jumper and tie.

Estimate, to the nearest £, her change from £100

On Nia’s map, 4cm represents 1km.

She walks a route that measures 24cm on the map.

How many kilometres does she walk?

Nia walks at an average speed of 5km per hour.

At that speed, how long would a walk of 7\(\frac{1}{2}\) km take?
12 \[ 1 : 5 = \boxed{3} : \]

13 \[ \frac{1}{4} \times \frac{1}{4} = \boxed{} \]

\[ \left(\frac{3}{4}\right)^2 = \boxed{} \]

14 Work out the circumference of the circle.

Use \( \pi = 3.14 \)

\[ \text{cm} \]
15. \[0.3 \times 0.2 = \text{ }\]

16. Decrease £35 by 10%.

17. \[2^3 \times 2^4 = \text{ }\]

\[2^{10} \div 2^7 = \text{ }\]
### Top 14 winners of Olympic medals for athletics

<table>
<thead>
<tr>
<th>Number of athletes</th>
<th>Number of medals each athlete won</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>1</td>
<td>18</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>

What fraction of these 14 athletes won more than 12 medals?

Altogether, how many medals did the 14 athletes win?
Tick the scatter graph that shows **negative** correlation.

---

**Formula to change temperature in °C to °F**

Multiply the temperature in °C by $\frac{9}{5}$, then add 32

Change $-10°C$ to °F.
21. | Before a pay rise | After a pay rise |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>£8.00 per hour</td>
<td>£8.25 per hour</td>
</tr>
</tbody>
</table>

Circle the value that shows the approximate percentage increase.

1%  3%  5%  7%  9%

22. Write the fraction that is exactly halfway between \( \frac{1}{10} \) and \( \frac{3}{5} \)
\[ \frac{1}{3} = 0.\overline{3} \]

What fraction is equal to 0.0\overline{3}?

---

24. The table shows information about a group of teenagers.

<table>
<thead>
<tr>
<th>Their mean age</th>
<th>Range of their ages</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 years and 6 months</td>
<td>3 years and 3 months</td>
</tr>
</tbody>
</table>

Complete the table to show information about the same group of teenagers exactly one year later.

<table>
<thead>
<tr>
<th>Their mean age</th>
<th>Range of their ages</th>
</tr>
</thead>
<tbody>
<tr>
<td>years and months</td>
<td>years and months</td>
</tr>
</tbody>
</table>