REASONING
6ER18

First name ____________________________

Last name ____________________________

School ______________________________

Class ________________________________

Date of birth ☐ ☐ ☐ ☐ ☐ ☐ ☐

Date of test ☐ ☐ 05 2018

Total score ☐ (maximum 20)

Llywodraeth Cymru
Welsh Government
Write the missing information in Cerian's report.

My report

Number of children who voted for each type of book

<table>
<thead>
<tr>
<th></th>
<th>Fiction</th>
<th>Nature</th>
<th>History</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
<td>8</td>
<td>10</td>
<td>11</td>
<td>29</td>
</tr>
<tr>
<td>Year 4</td>
<td>6</td>
<td></td>
<td>8</td>
<td>26</td>
</tr>
<tr>
<td>Year 5</td>
<td>7</td>
<td></td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Year 6</td>
<td>13</td>
<td>10</td>
<td>5</td>
<td>28</td>
</tr>
<tr>
<td>Total</td>
<td>34</td>
<td>38</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

Most popular type of book

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Year 4</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Year 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The type of book that got the most votes is
Cerian buys the same number of fiction, nature and history books.

She spends exactly £240

How many of each type of book does she buy?
The table shows three number patterns.

The number patterns continue down each column.

<table>
<thead>
<tr>
<th></th>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row 1</td>
<td>10</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Row 2</td>
<td>20</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>Row 3</td>
<td>30</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Row 4</td>
<td>40</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>Row 5</td>
<td>50</td>
<td>25</td>
<td>10</td>
</tr>
<tr>
<td>Row 6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10 is in column A row 1, column B row 2 and column C row 5

Work out where 100 will be.

100 will be in column A row

100 will be in column B row

100 will be in column C row
The robot moves in straight lines at the **same speed**.

At 7pm it reaches this sign.

The robot left the start at 3pm.

At what time will it reach the finish?

The next day, the robot moves like this:

- forward 25m, turn right 90°, forward 50m, turn right 90°,
- forward 25m, turn right 90°, forward 50m

What **shape** is the robot’s path?

Write the name of the shape.
4. Write the missing numbers in these multiplication tables.

\[
\begin{array}{ccc}
\times & 2 & \cdot \\
3 & 6 & 18 \\
\cdot & \cdot & \cdot \\
\cdot & 8 & \cdot \\
\end{array}
\quad
\begin{array}{ccc}
\times & 2 & \cdot \\
14 & 63 & \cdot \\
\cdot & \cdot & \cdot \\
\cdot & \cdot & 72 \\
\end{array}
\]

5. A drawing of a bird is 6 paperclips or 4 matchsticks high.

A drawing of a cat is 12 \textit{paperclips} high.

How many matchsticks high is it?

(Hint: the answer is not 10)

A drawing of a rabbit is 6 \textit{matchsticks} high.

How many paperclips high is it?
A shop sells toy cars and finger puppets.

All finger puppets cost the same.

1 car and 5 puppets cost £2.85

1 car and 10 puppets cost £5.10

Work out the cost of 1 car.