Use the information on the next page.

Work out which day out would be cheaper, and by how much.

You **must** show how you work it out.
Information:

14 young people and 2 adults are going on the day out.

The minibus costs £1.50 for every mile driven.

Climbing centre

The climbing centre costs £7.50 for each young person, £10 for each adult.

It is 73 miles there and 73 miles back.

Forest adventure

The forest adventure costs £18 for each young person, £20 for each adult.

It is 16 miles there and 16 miles back.
Jed has eight number cards:

\[
\begin{array}{cccccccc}
1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\
\end{array}
\]

He places all eight of his cards inside three envelopes.

- **A**: Inside are **two** cards that sum to 15
- **B**: Inside are **three** cards that sum to 10
- **C**: Inside are **three** cards

Which three cards could be inside envelope **C**?

There are **three** possible answers. Give them all.

\[
\begin{array}{c}
\quad , \\
\quad , \\
\text{and} \\
\end{array}
\]

\[
\begin{array}{c}
\quad , \\
\quad , \\
\text{and} \\
\end{array}
\]

\[
\begin{array}{c}
\quad , \\
\quad , \\
\text{and} \\
\end{array}
\]
A gallon of liquid in America is different from a gallon of liquid in the United Kingdom (UK).

The scale shows how.

<table>
<thead>
<tr>
<th>UK gallons</th>
<th>American gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

Convert 2.5 UK gallons to American gallons.

Now convert 32.5 UK gallons to American gallons.
4. If you know what \( \frac{1}{3} \) of a number is, how can you find \( \frac{1}{6} \) of the same number?

5. Megan has this box, a cuboid, to be gift-wrapped.

She wants ribbon to go all the way round the box like this:

The bottom will look the same as the top.

She has 2 metres of ribbon.

Is that enough? Show how you know.
Children sell tickets at their school fete.

Each ticket costs 10p

Win 50p if the number on your ticket ends in 0 or 5

They sell 80 tickets, numbered 1 to 80

Show why they do not make a profit.

To make £20 profit, how much should each of the 80 tickets cost?