### May 10th

#### 5-a-day

<table>
<thead>
<tr>
<th>Rotherham</th>
<th>Hospital</th>
<th>Whiston</th>
<th>Bramley</th>
<th>Maltby</th>
</tr>
</thead>
<tbody>
<tr>
<td>£1.15</td>
<td>75p</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>£1.42</td>
<td>54p</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>£1.78</td>
<td>54p</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>60p</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>96p</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>47p</td>
<td></td>
<td></td>
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</tbody>
</table>

**How much is the bus from Maltby to Whiston?**

96p

**Two people get the bus from the Hospital to Bramley.**

How much change will they get from £5?

£3.16

£5.00 - £2.16 = £2.84

#### Numeracy

**Calculate the range**

5 - 1 = 4

Don't you agree that burning fossil fuels is bad for the environment?

Give a criticism of this question.

**Leading question**

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### Probability Scale

Label the probability scale to show:

a) The probability of rolling an even number on a dice. Label it with an A.

b) The probability of rolling a number below 3. Label it with a B.

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\[ 1, 2, 3, 4, 5, 6 \]
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\[ \frac{3}{6}, \frac{1}{3}, \frac{1}{6} \]
### Expand

\[ y(y - 2) \]

\[ y^2 - 2y \]

### Find the nth term for:

<table>
<thead>
<tr>
<th>9</th>
<th>19</th>
<th>29</th>
<th>39</th>
<th>49</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>

\[ 10n - 1 \]

### Place Frequency

<table>
<thead>
<tr>
<th>Country</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>12</td>
</tr>
<tr>
<td>Spain</td>
<td>11</td>
</tr>
<tr>
<td>Italy</td>
<td>10</td>
</tr>
<tr>
<td>Germany</td>
<td>3</td>
</tr>
</tbody>
</table>

Calculate the size of each angle

\[ \frac{360}{3} = 120^\circ \]

### Calculate the area of the triangle

\[ \frac{1}{2} \cdot b \cdot h \]

\[ \frac{1}{2} \cdot (11 \times 5) = \frac{1}{2} \cdot 55 = 27.5 \text{ cm}^2 \]

### Find the length of the missing side

\[ a^2 + b^2 = c^2 \]

\[ s^2 + 11^2 = c^2 \]

\[ 25 + 121 = c^2 \]

\[ c = \sqrt{146} = 12.08 \text{ cm} \]
<table>
<thead>
<tr>
<th>May 10</th>
<th>5-a-day</th>
<th>Higher</th>
</tr>
</thead>
</table>
| **Monday**: 3 cakes and 5 teas cost £8.10 | | $3c + 5t = 810$
| **Thursday**: 3 cakes and 3 teas cost £6.30 | $3c + 3t = 630$
| Work out the cost of each. | $2t = 180$
| | $t = 90p$
| Calculate the area of a circle with radius 5cm, in terms of pi. | $3c + 270 = 630$
| | $3c = 360$
| | $c = 120$
| | $25\pi \text{ cm}^2$
| | $2\times\pi \times 2.736$
| | $y = 5.472 \text{ cm}$
| The probability of winning a game is 0.7. | | **WWL** $0.7 \times 0.7 \times 0.3$
| The game is played 3 times. | | **WLU** $0.7 \times 0.3 \times 0.7$
| What is the probability of exactly 2 wins. | | **LWW** $0.3 \times 0.7 \times 0.7$
| | | **0.441**
| | | **Calculate the area of the sector. Leave your answer in terms of pi.**
| | | $\frac{1}{6} \times \pi \times 12^2$
| | | $\frac{1}{6} \times \pi \times 164$
| | | $24\pi \text{ cm}^2$