<table>
<thead>
<tr>
<th>November 8th</th>
<th>5-a-day</th>
<th>Numeracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work out 50% of £40</td>
<td>Work out 25% of 24cm</td>
<td>6cm</td>
</tr>
<tr>
<td>£20</td>
<td></td>
<td></td>
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<td></td>
<td>Matt arrives at school at the time shown. He left his house <strong>twenty five minutes earlier</strong>. What time did he leave? 08:35</td>
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<tr>
<td>3 6 12 24</td>
<td>What are the next two numbers? 48 96</td>
<td></td>
</tr>
<tr>
<td>What is the rule for the sequence above? <em>multiply the previous term by 2</em></td>
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</tbody>
</table>
| \[
\begin{array}{cc}
1 & 4 \\
\times 4 & = 5 6 \\
\end{array}
\] |
| \[
\begin{array}{cc}
1 & 3 \\
\times 4 & = 5 2 \\
\end{array}
\] |
<p>| How many days are there in four consecutive years? 1461 | 365 365 365 366 |</p>
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<tr>
<td><strong>Solve</strong></td>
<td></td>
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</table>
| \(5(y - 2) = 4y - 8\) | \(5y - 10 = 4y - 8\) | \(\begin{align*} 
5y - 10 &= 4y - 8 \\
\Rightarrow y - 10 &= -8 \\
\Rightarrow y &= 2 
\end{align*}\) |
| **Solve 3y + 2 < 20** | \(3y < 18\) | \(\begin{align*} 
y &< 6 
\end{align*}\) |
| **Calculate the volume of this prism.** | \(24 \times 15 = 360 \text{ cm}^2\) | \(\begin{align*} 
24 \times 15 &= 360 \text{ cm}^2 \\
39 \times 10 &= 390 \text{ cm}^3 
\end{align*}\) |
| **Size of a?** | \(35^\circ\) | |
| **Which is larger?** | \(\frac{9}{10}, \frac{5}{6}\) | \(\begin{align*} 
\frac{9}{10} &= \frac{27}{30} \\
\frac{5}{6} &= \frac{25}{30} \\
\frac{9}{10} &= \frac{9}{10} 
\end{align*}\) |
**November 8**

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<th><strong>Higher</strong></th>
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| **Find the size of angle ABC.**<br>
\[
\cos \theta = \frac{12}{13}
\]
\[
\theta = 22.62^\circ
\] | **The sum of the interior angles in a polygon is 7380°.**<br>
Calculate the number of sides the polygon has.<br>
\[
(n - 2) \times 180 = 7380
\]
\[
\frac{n - 2}{41}
\]
\[
N = 43 \text{ sides}
\] |
| **Solve the simultaneous equations**<br>
\[
\begin{align*}
4x - y &= 17 \\
y &= x - 2 \\
\end{align*}
\]
\[
-3x + y = -2
\]
\[
\begin{align*}
x &= 5 \\
y &= 3
\end{align*}
\]
\[
\text{Check: } 4 \times 5 - 3 = 17 \checkmark
\] |  |
| **Rationalise the denominator**<br>
\[
\frac{12}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{12\sqrt{3}}{3}
\]
\[
4\sqrt{3}
\] |  |
| **Find the area of the sector.**<br>
\[
\frac{80}{360} \times \pi \times 9^2 = 18\pi
\]
\[
56.55 \text{ cm}^2
\] |