**January 9th**

<table>
<thead>
<tr>
<th>5-a-day</th>
<th>Numeracy</th>
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**5-a-day**

An ice cream cost 72p
David pays with a £1 coin

\[ £1 - 72p = 28p \]

**Numeracy**

List the coins he may receive in his change?

- 20p, 5p, 2p, 1p
- 10p, 10p, 2p, 2p, 2p

Match up the numbers that multiply to give an answer of 1

- 5, 2, 1, 4
- 0.5, 1, 0.2, 0.25

\[ 64 \div 4 = 16 \]

\[ 64 \quad \overline{+ 16} \quad \underline{80} \text{ cm} \]

What measurement is shown on the scale?

- 75 ml

Mary has 7 blue socks and 3 red socks.

If she selects one sock at random, what is the probability she selects a red sock?

- \( \frac{3}{10} \)
### January 9th

<table>
<thead>
<tr>
<th>5-a-day</th>
<th>Foundation</th>
</tr>
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<tbody>
<tr>
<td>Calculate the nth term</td>
<td>Using the nth term, calculate the 100th term in the sequence</td>
</tr>
<tr>
<td>6, 11, 16, 21, 26</td>
<td>$5n+1$</td>
</tr>
<tr>
<td>$5, 10, 15, 20, 25, 30, 35, \ldots$</td>
<td>$5\times100+1$</td>
</tr>
<tr>
<td>$\ldots$</td>
<td>501</td>
</tr>
</tbody>
</table>

#### Tomato soup - serves 4 people
- 600g tomatoes
- 20g basil
- 4 tablespoons of olive oil
- 1 garlic clove

- How much is needed for 12 people?
  - 1800g or 1.8kg
  - 12 tablespoons
  - 3 garlic cloves

#### Sam wants to find out how much pocket money his friends receive.
He asks this question:
- How much pocket money do you receive each week?

#### Write down suitable response boxes.
- £20 - £2
- £7.01 - £9.4
- £4.01 - £6
- £6.01 - $\Box$

#### Calculate the volume of this cylinder

![Diagram of a cylinder]

- $\pi \times 4^2 \times 10$
- $= 502.65\text{ cm}^3$
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<th>Higher</th>
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<tbody>
<tr>
<td>January 9</td>
<td>What is the sum of the interior angles for an octagon? ((8 - 2) \times 180) (= 1080)°</td>
<td>What is the size of each interior angle for a regular octagon? (1080 \div 8 = 135)°</td>
</tr>
<tr>
<td></td>
<td>Calculate the gradient of the straight line passing through ((0, 2)) and ((3, 11)). (m = \frac{9}{3} = 3)</td>
<td>Write down the equation of the line. (y = 3x + 2)</td>
</tr>
<tr>
<td></td>
<td>The trapezium and circle have the same area. Find (r). (</td>
<td>\frac{1}{2} (8+12) \times 5) = 50 cm(^2)</td>
</tr>
<tr>
<td></td>
<td>Simplify (\sqrt{1000}) (10\sqrt{10}) (= 10\sqrt{10})</td>
<td>Simplify (3\sqrt{2} \times 3\sqrt{14}) (\sqrt{28}) (= \sqrt{4} \times \sqrt{7}) (= 2\sqrt{7}) (= 18\sqrt{7})</td>
</tr>
<tr>
<td></td>
<td>Line 1 has gradient 4 and passes through the point ((3, 10)). (y = 4x - 2)</td>
<td>Write down the equation of a line perpendicular to line 1. (y = -\frac{1}{4}x + 10) (y = -\frac{1}{4}x + 5)</td>
</tr>
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</table>