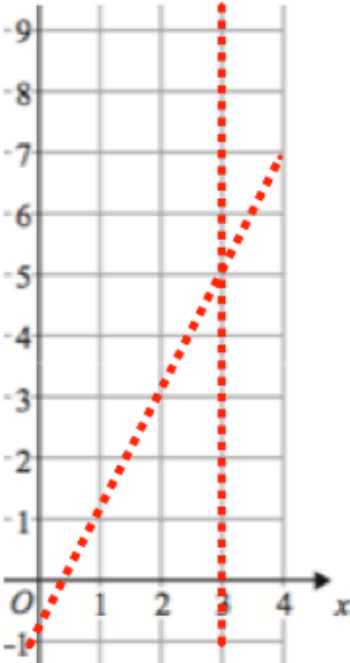


| July 6th   | 5-a-day  | Numeracy |
|--|--|----------|
| <p>Walter thinks of a number.</p> <p>He adds 5</p> <p>Then he doubles the answer</p> <p>His final answer is 18</p>                                   | <p>What was his original number?</p> $18 \div 2 = 9$ $9 - 5 = 4$ |          |
| <p>Here is a sequence of numbers</p> <p>3 6 12 24 ... ..</p> <p>48 96</p>  | <p>What is the rule for continuing the sequence?</p> $\times 2$  |          |
| <p>Work out 10% of 40</p> <p>4</p>   | <p>Work out 50% of 80</p> <p>40</p>                              |          |
| <p>22 18 26 23 29 36</p> <p>Write down three numbers from the list that add up to 70</p>   | <p>18 23 29</p>  |          |
| <p>Complete each sentence by writing in the correct <b>metric</b> unit.</p> <p>The height of a door is approximately</p> <p>2 ..... metres .....</p> | <p>The weight of a man is</p> <p>85 ..... kilograms .....</p>    |          |

| July 6  | 5-a-day   | Foundation                     |   |   |   |   |     |    |   |   |   |  |
|---|---|--------------------------------|---|---|---|---|-----|----|---|---|---|--|
| <p>The <math>n</math>th term of a sequence is <math>n^2 + 10</math></p> <p>Work out the first 5 terms</p> | <p>1st 11<br/>2nd 14<br/>3rd 19<br/>4th 26<br/>5th 35</p>   |                                |   |   |   |   |     |    |   |   |   |  |
| <p>Solve <math>10w = 25</math></p> <p><math>w = 2.5</math></p>  | <p>Solve <math>3w + 7 = 22</math></p> <p><math>-7 \quad -7</math><br/><math>3w = 15</math><br/><math>w = 5</math></p>   |                                |   |   |   |   |     |    |   |   |   |  |
|                         | <p>On the grid, draw the graph <math>y = 2x - 1</math></p> <table border="1" data-bbox="805 1008 1292 1209"><tr><td><math>x</math></td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td><math>y</math></td><td>-1</td><td>1</td><td>3</td><td>5</td></tr></table> | $x$                            | 0 | 1 | 2 | 3 | $y$ | -1 | 1 | 3 | 5 |  |
| $x$   | 0   | 1                              | 2 | 3 |   |   |     |    |   |   |   |  |
| $y$   | -1  | 1                              | 3 | 5 |   |   |     |    |   |   |   |  |
| <p>Work out <math>\frac{1}{2} + \frac{3}{8}</math></p>  | <p><math>\frac{6}{8} + \frac{3}{8} = \frac{9}{8}</math></p>   | <p>Draw <math>x = 3</math></p> |   |   |   |   |     |    |   |   |   |  |

| July 6  | 5-a-day   | Higher |
|---|---|--------|
| Write down the equation of a line parallel to $y = 3x + 1$ that passes through the point $(0, 6)$ | $y = 3x + 6$  |        |
| Factorise $y^2 - 4$   | $(y-2)(y+2)$  |        |
| Simplify fully<br>$\frac{x^2 - 4}{2x^2 - x - 6}$  | $\frac{\cancel{(x-2)}(x+2)}{(2x+3)\cancel{(x-2)}} = \frac{x+2}{2x+3}$   |        |
| A varies indirectly to $C^3$ .<br>When $A = 4$ , $C = 2$ .<br>Find $A$ when $C = 3$ .             | $A \propto \frac{1}{C^3}$<br>$A = \frac{k}{C^3}$<br>$4 = \frac{k}{2^3}$ $k = 32$<br>$A = \frac{32}{3^3} = \frac{32}{27}$<br>$A = 1.185$ |        |
| Find $C$ when $A = 10$ .  | $10 = \frac{32}{C^3}$<br>$10C^3 = 32$<br>$C^3 = 3.2$<br>$C = \sqrt[3]{3.2}$<br>$C = 1.474$  |        |