

Name: \_\_\_\_\_

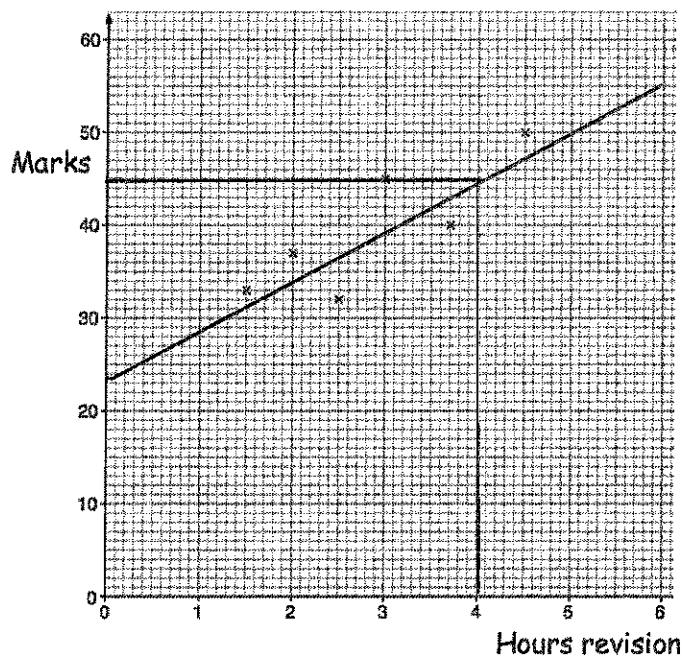
December 21st	5-a-day	Numeracy								
<p><b>4 6 9 11 12 15</b></p> <p>From the list work out the largest even total. <i>(Using two numbers)</i></p>	<p><math>11 + 15 = 26</math></p>									
<p>Write down the first five multiples of 9.</p> <p>9 18 27 36 45</p>	<p>Write down all the factors of 30.</p> <p>1, 2, 3, 5, 6, 10, 15, 30</p>									
<p>Jane's watch is 7 minutes slow. Ben's watch is 4 minutes fast.</p> <p>The time on Ben's watch is 15:02.</p> <p>What time is shown on Jane's watch?</p>	<p>Ben : 15:02 Actual : 14:58 Jane : 14:51</p>									
<p>Work out 10% of 60</p> <p>6</p>	<p>Write down 15% of 40.</p> <p><math>10\% = 4</math> <math>+ 5\% = 2</math> <hr/><math>15\% = 6</math></p>									
<table border="0"> <tr> <td>Starter</td> <td>Main</td> </tr> <tr> <td>Soup</td> <td>Beef</td> </tr> <tr> <td>Melon</td> <td>Gammon</td> </tr> <tr> <td>Prawns</td> <td></td> </tr> </table> <p>Hannah is going to choose one starter and one main.</p>	Starter	Main	Soup	Beef	Melon	Gammon	Prawns		<p>List all her possible choices.</p> <p>SB SG MB MG PB PG</p>	
Starter	Main									
Soup	Beef									
Melon	Gammon									
Prawns										

Name: \_\_\_\_\_

December 21

5-a-day

Foundation



Thomas revises for 4 hours.  
Using the scatter graph, predict how many marks he will get?

45

Megan revises for 6 hours, why is it not sensible to use the scatter graph to predict how many marks she will get?  
6 hours is beyond the range of the data.  
Extrapolation.  
She may become fatigued.

$A = 6x + 3y$   
Work out the value of A when  $x = 5$  and  $y = -8$

$$A = 30 - 24$$

$$A = 6$$

Find x when  $y = 10$  and  $A = 18$ .

$$18 = 6x + 30$$

$$-12 = 6x$$

$$x = -2$$

Expand and simplify

$$5(3y + 4) + 3(2y - 6)$$

$$15y + 20 + 6y - 18$$

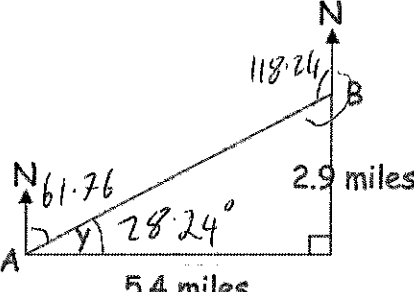
$$21y + 2$$

Expand

$$3y(y^2 + 4y)$$

$$3y^3 + 12y^2$$

Name: \_\_\_\_\_

December 21	5-a-day	Higher
<p>Natalie invests £800 for 2 years at 10% per year compound interest.</p> <p>How much interest does she earn?</p>		$800 \times 1.1^2 = 968$ $968 - 800 = \pounds 168$
<p>Work out the gradient of the straight line that passes through (2, 6) and (6, 12).</p>		$m = \frac{y_2 - y_1}{x_2 - x_1}$ $m = \frac{12 - 6}{6 - 2} = \frac{6}{4} = \frac{3}{2}$
		<p>Find the size of y.</p> $\tan y = \frac{2.9}{5.4} \quad y = 28.24^\circ$
<p>Work out the bearing of B from A.</p> $90 - 28.24$ $061.76^\circ$		<p>Work out the bearing of A from B.</p> $180 - 61.76 = 118.24$ $360 - 118.24 =$ $241.76^\circ$
<p>Expand and simplify</p> $(\sqrt{5} + \sqrt{2})(\sqrt{5} - \sqrt{2})$ $5 - \sqrt{10} + \sqrt{10} - 2$		$3$