

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

Class: \_\_\_\_\_

Date: \_\_\_\_\_

**Secondary 2 E Mathematics  
WAI Mock Paper**

Topic: Linear Graph, Simultaneous & Linear Inequalities

Duration: 1 hour and 15 minutes



**Linear Graph & Simultaneous Linear Equations**

1	<p>(a) Find the gradient of the line.</p> <p>(b) Write down the y-intercept of the line.</p> <p>(c) Write down the equation of the vertical line that passes through (2, 0).</p>		<p>[1]</p> <p>[1]</p> <p>[1]</p>									
2	<p>The equation of a line is <math>ax + 2y = 3</math>.</p> <p>(a) This line passes through <math>(-1, 2.5)</math>. Find the value of <math>a</math>.</p> <p>(b) On a piece of graph paper, draw the graph <math>ax + 2y = 3</math> for <math>-3 \leq x \leq 3</math>.</p> <p>(c) Find the value of <math>y</math> when <math>x = 2.5</math></p> <p>(d) On the same graph, draw the line <math>y = 2.8</math></p> <p>(e) Find the coordinates of the point where both lines intersect.</p>	<p>[1]</p> <p>[2]</p> <p>[1]</p> <p>[1]</p> <p>[1]</p>										
3	<p>Given that the equation <math>\frac{3}{2}x - 2y = \frac{1}{5}</math>, copy and complete the following table.</p> <table border="1" data-bbox="484 815 1387 865"> <tbody> <tr> <td><math>x</math></td> <td>-2</td> <td>0</td> <td>2</td> <td>4</td> </tr> <tr> <td><math>y</math></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(ii) Draw the graph of <math>\frac{3}{2}x - 2y = \frac{1}{5}</math> for <math>-2 \leq x \leq 4</math>.</p> <p>(iii) Given that <math>(\frac{p}{2}, 2.3)</math> is a solution of the equation, find the value of <math>p</math>.</p> <p>(b) The equation of another line is <math>y = \frac{2}{5}x + \frac{3}{5}</math>.</p> <p>Draw the graph of this line on the same axes.</p> <p>(c) Using the graph, solve the following Simultaneous Equation.</p> $\frac{3}{2}x - 2y = \frac{1}{5}$ $5y - 2x = 3$	$x$	-2	0	2	4	$y$					<p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[1]</p> <p>[1]</p>
$x$	-2	0	2	4								
$y$												

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