## 7th May

**Draw the graph** $y = 2x + 1$

<table>
<thead>
<tr>
<th>$x$</th>
<th>$y$</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
</tr>
</tbody>
</table>

**Write down the gradient of a line perpendicular to the one drawn.**

Gradient of $y = 2x + 1$ is $2$. The gradient of a line perpendicular to this is $-\frac{1}{2}$.

**Find**

$$7 \frac{1}{2} + 1 \frac{2}{3} = \frac{3}{8} \div y$$

**Helen is making a loaf of bread.**

A loaf of bread loses 13% of its weight when it is baked. Helen wants the baked loaf to weigh 800g.

Work out the weight of the loaf of bread before it is baked.

**M is the midpoint of AB.**

Find vector $\mathbf{OM}$ in terms of $\mathbf{a}$ and $\mathbf{b}$. 

$\mathbf{a}$.

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