## 4th October

### Estimate $\sqrt{800}$

- **Calculate the length of AE**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>25m</td>
<td>30m</td>
<td>10m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Solve $5y^2 + 8y - 100 = y^2 + 4y - 37$

### Expand $\sqrt{3(\sqrt{5} + \sqrt{2})}$

### Two solids are mathematically similar. The surface area of the smaller solid is $42\pi$ cm$^2$ The surface area of the larger solid is $1512\pi$ cm$^2$ The height of the larger solid is 96cm. **Work out the height of the smaller solid.**

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