<table>
<tr><th>Question Number</th><th>Scheme</th><th>Marks</th></tr>
<tr><td>2.(a)</td><td>
<table>
<tr><td><i>A</i></td><td><i>B</i></td><td><i>C</i></td><td><i>D</i></td><td>Is– 0.1<<i>D</i><0.1?</td></tr>
<tr><td>1250</td><td>125</td><td>67.5</td><td>57.5</td><td>no</td></tr>
<tr><td></td><td>67.5</td><td>43.009</td><td>24.491</td><td>no</td></tr>
<tr><td></td><td>43.009</td><td>36.036</td><td>6.973</td><td>no</td></tr>
<tr><td></td><td>36.036</td><td>35.362</td><td>0.675</td><td>no</td></tr>
<tr><td></td><td>35.362</td><td>35.355</td><td>0.006</td><td>yes</td></tr>
</table>
</td><td>M1

A1

A1ft</td></tr>
<tr><td></td><td>Output 35.355</td><td>A1 (4)</td></tr>
<tr><td>(b)</td><td>Calculates the square root of a number or states $\sqrt{A}$</td><td>B1 (1)</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td>5 marks</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td>Notes for Question 2</td><td></td></tr>
<tr><td></td><td>Condone
1250 repeatedly written in “A” column.
67.500 and 57.500
“no” replaced with crosses and “yes” replaced with a tick.
3dp answers given to more decimal places provided their answer rounds correctly to 3dp
If “no” is omitted throughout, but all other cells correct award M1 A0 A1 A0.</td><td></td></tr>
<tr><td>a1M1</td><td>First row cells completed – something in each cell A to D.</td><td></td></tr>
<tr><td>a1A1</td><td>First second and third rows correct.</td><td></td></tr>
<tr><td>a2A1ft</td><td>Fourth and fifth rows correct – ft their third row.</td><td></td></tr>
<tr><td>a3A1</td><td>CSO 35.355 in Output row. Condone if “output 35.355” seen elsewhere</td><td></td></tr>
<tr><td>b1B1</td><td>CAO Square Root or C^2 =A. Give BOD if equivalent answer given numerically or in words</td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td>Alternative using correct fractions:
These exact fractions are correct replacements for the two exact numbers and the two numbers to 3dp

67.5 = 135/2 57.5 = 115/2 43.009 = 4645/108 24.491 = 2645/108

Alternative if using all values rounded to 3 dp (scores full marks)

<table>
<tr><td><i>A</i></td><td><i>B</i></td><td><i>C</i></td><td><i>D</i></td><td>Is– 0.1<<i>D</i><0.1?</td></tr>
<tr><td>1250</td><td>125</td><td>67.5</td><td>57.5</td><td>no</td></tr>
<tr><td></td><td>67.5</td><td>43.009</td><td>24.491</td><td>no</td></tr>
<tr><td></td><td>43.009</td><td>36.036</td><td>6.973</td><td>no</td></tr>
<tr><td></td><td>36.036</td><td>35.362</td><td>0.674</td><td>no</td></tr>
<tr><td></td><td>35.362</td><td>35.355</td><td>0.007</td><td>yes</td></tr>
</table>
</td><td></td></tr>
</table>