

**MATHEMATICS MAIN PAPER FOR 2016 ENTRY TEST 2 – ANSWERS**

**1 mark for each correct answer. Total 60 marks.**

|    | ANSWER  |
|----|---|
| 1a | $\begin{array}{r} 70200 \\ 7020 \\ 702 \\ \hline 70.2 \\ 7.02 \\ \hline 0.702 \end{array}$                              |
| 1b | $\begin{array}{r} 0.032 \\ 0.64 \\ 12.8 \\ \hline 256 \end{array}$  |
| 1c | $\begin{array}{r} 1 \\ \hline \frac{3}{4} \\ \frac{1}{2} \\ \frac{1}{4} \\ \hline 0 \\ \hline -\frac{1}{4} \end{array}$ |
| 1d | $\begin{array}{r} \frac{2}{3} \\ \hline \frac{5}{6} \\ \hline 1 \\ \hline 1\frac{1}{6} \end{array}$                     |
| 1e | $\begin{array}{r} 18 \\ 6 \\ 2 \\ \hline \frac{2}{3} \\ \hline \frac{2}{9} \end{array}$                                 |

|    | ANSWER   |
|----|--|
| 2a | $\begin{array}{r} 1 \quad 3 \quad 9 \quad + \\ 5 \quad \boxed{1} \quad 7 \\ \hline 6 \quad 5 \quad \boxed{6} \end{array}$                                |
| 2b | $\begin{array}{r} 3 \quad 3 \quad 5 \quad - \\ 1 \quad \boxed{5} \quad 8 \\ \hline \boxed{1} \quad 7 \quad \boxed{7} \end{array}$                        |
| 2c | $\begin{array}{r} 1 \quad \boxed{3} \quad 8 \quad \times \\ \phantom{1 \quad \boxed{3} \quad 8} \quad 7 \\ \hline \boxed{9} \quad 6 \quad 6 \end{array}$ |
| 2d | $\boxed{5} \quad \boxed{1}$  |

|    | ANSWER   |    |   |   |    |   |   |   |   |    |
|----|--|----|---|---|----|---|---|---|---|----|
| 3a | <table border="1"> <tr><td>5</td><td>4</td><td>9</td></tr> <tr><td>10</td><td>6</td><td>2</td></tr> <tr><td>3</td><td>8</td><td>7</td></tr> </table> | 5  | 4 | 9 | 10 | 6 | 2 | 3 | 8 | 7  |
| 5  | 4  | 9  |   |   |    |   |   |   |   |    |
| 10 | 6  | 2  |   |   |    |   |   |   |   |    |
| 3  | 8  | 7  |   |   |    |   |   |   |   |    |
| 3b | <table border="1"> <tr><td>5</td><td></td><td>7</td></tr> <tr><td>10</td><td>8</td><td></td></tr> <tr><td></td><td>4</td><td>11</td></tr> </table>   | 5  |   | 7 | 10 | 8 |   |   | 4 | 11 |
| 5  |  | 7  |   |   |    |   |   |   |   |    |
| 10 | 8  |    |   |   |    |   |   |   |   |    |
|    | 4  | 11 |   |   |    |   |   |   |   |    |
| 4a | 121  |    |   |   |    |   |   |   |   |    |
| 4b | 169  |    |   |   |    |   |   |   |   |    |
| 4c | 4  |    |   |   |    |   |   |   |   |    |

|    | ANSWER |
|----|--------|
| 5a | 90°    |
| 5b | 150°   |
| 5c | 270°   |
| 6a | £15.50 |
| 6b | £6.20  |
| 6c | £6.82  |
| 6d | 20%    |

|    | ANSWER                      |
|----|-----------------------------|
|    |                             |
| 7a | 90                          |
| 7b | .....3.....m                |
| 7c | .....8.4.....m              |
| 7d | .....3.6.....m <sup>2</sup> |

|    | ANSWER |
|----|--------|
|    |        |
| 8a | £7     |
| 8b | £3.60  |
| 8c | £39.60 |
| 8d | £3.40  |

|    | ANSWER                                   |
|----|--|
| 9a | £9.57                                    |
| 9b | £4.56                                    |
| 9c | £ 3.65<br>and<br>£ 2.59<br>and<br>£ 1.49 |

|     | ANSWER   |
|-----|--|
| 10a | .....120.....km                                |
| 10b | .....180.....km                                |
| 10c | .....15.....<br>minutes                        |
| 10d | .....30.....<br>minutes                        |
| 10e | .....2.....<br>hours<br>.....5.....<br>minutes |

|     | ANSWER                                 |
|-----|--|
| 11a | 7m                                     |
| 11b | 0700<br>or<br>7a.m.<br>or<br>7 o'clock |
| 11c | 9                                      |

|     | ANSWER |
|-----|--------|
|     |        |
| 12a | 12     |
| 12b | 30cm   |
| 12c | 6      |

|     | ANSWER |
|-----|--------|
|     |        |
| 13a | False  |
| 13b | True   |
| 13c | True   |