## Topic Test 1 Mark Scheme

## Basic number, fractions and decimals - Higher



| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 7 | $1-\frac{5}{8} \text { or } \frac{3}{8}$ <br> or $1-\frac{9}{20} \text { or } \frac{11}{20}$ <br> or $\frac{5}{8}+\frac{9}{20} \text { or } \frac{43}{40}$ | M1 | oe |
|  | $\frac{9}{20} \text { - their } \frac{3}{8}$ <br> or $\frac{5}{8}-\text { their } \frac{11}{20}$ <br> or their $\frac{43}{40}-1$ | M1 | oe |
|  | $\frac{3}{40}$ | A1 | oe |
|  |  |  |  |
| 8 | $240 \div \frac{2}{5} \text { or } 600$ <br> their 600-240 or 360 | M1 M1 | oe <br> $240 \div 2 \times 3$ scores M2 |
|  | their $360 \div 4$ or 90 | M1 | Condone $600 \div 4$ |
|  | 270 | A1 | $\begin{aligned} & \text { SC3 } 450 \\ & \text { SC2 } 150 \end{aligned}$ |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| Alternative method 1 |  |  |  |
|  |  |  |  |
| 9 | $10 x=2.33 \ldots$ <br> and $9 x=2.1$ | M1 | $\begin{aligned} & \text { oe } \\ & 100 x=23.33 \ldots \text { and } 99 x=23.1 \end{aligned}$ |
|  | $\frac{21}{90}$ | M1 | oe fraction $\frac{231}{990}$ |
|  | $\frac{7}{30}$ | A1ft | ft correct simplification of fraction with M1 scored |
|  | Alternative method 2 |  |  |
|  | $\begin{aligned} & 0.2+0.033 \ldots=\frac{2}{10}+0.033 \ldots \\ & \text { and } \\ & 100 x=3.33 \ldots \\ & \text { and } \\ & 99 x=3.3 \end{aligned}$ | M1 | oe |
|  | $\frac{198}{990}+\frac{33}{990}$ or $\frac{231}{990}$ | M1 | oe fractions |
|  | $\frac{7}{30}$ | A1ft | ft correct simplification of fraction with M1 scored |
|  | Alternative method 3 |  |  |
|  | $\frac{2}{10}+\frac{3}{90}$ | M1 |  |
|  | $\frac{18}{90}+\frac{3}{90}$ or $\frac{21}{90}$ | M1 |  |
|  | $\frac{7}{30}$ | A1ft | ft correct simplification of fraction with M1 scored |
|  | Alternative method 4 |  |  |
|  | $10 x=2.33 \ldots=\frac{7}{3}$ | M1 |  |
|  | $\frac{7}{3} \div 10$ | M1 |  |
|  | $\frac{7}{30}$ | A1 |  |

