## Bronze Level

## Mark Scheme 7

| Level | IGCSE |
| :--- | :--- |
| Subject | Maths |
| Exam Board | Edexcel |
| Difficulty Level | Bronze |
| Booklet | Mark Scheme 7 |
|  |  |
|  |  |
|  |  |
| Time Allowed: | $\mathbf{5 8}$ minutes |
| Score: | $\mathbf{/ 4 8}$ |
| Percentage: | $\mathbf{1 0 0}$ |
|  |  |
|  |  |

Grade Boundaries:

| A* | A | B | C | D | E | U |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $>85 \%$ | $75 \%$ | $60 \%$ | $45 \%$ | $35 \%$ | $25 \%$ | $<25 \%$ |

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| 1 (a) |  | $\begin{array}{r} 18 a-12 b+6 c \\ (0 e) \end{array}$ | 1 | B1 |
| :---: | :---: | :---: | :---: | :---: |
| (b) |  | $\mathrm{t}(\mathrm{t}-10)$ | 2 | B2 also accept $(t \pm 0)(t-10)$ for B2 <br> B1 for factors which, when expanded and simplified, give only two terms, one of which is correct. <br> SC $\quad \mathrm{B} 1$ for $t(t-10 t)$ |
| (c) | $3 x=7-2 x$ $5 x=7 \text { or } 5 x-7=0$ | 1.40e | 3 | M1 or $x=\frac{7}{3}-\frac{2 x}{3}$ M1 or $\frac{5 x}{3}=\frac{7}{3}$ or $x+\frac{2 x}{3}=\frac{7}{3}$ <br> A1 Answer dependent on at least M1 |
|  |  |  |  | Total 6 marks |

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| 2 | $\frac{8}{18}-\frac{3}{18}$ or $\frac{8 n}{18 n}-\frac{3 n}{18 n}$ | 2 | M1 | for 2 correct fractions with a common <br> denominator a multiple of $9 \& 6$ |
| :---: | :--- | :--- | :--- | :--- |
|  | $\frac{8}{18}-\frac{3}{18}=\frac{5}{18}$ or <br> $\frac{8 n}{18 n}-\frac{3 n}{18 n}=\frac{5 n}{18 n}\left(=\frac{5}{18}\right)$ |  | A1$\frac{5}{18}$ coming from $\frac{8}{18}-\frac{3}{18}$ or <br> for final fraction equivalent to $\frac{5}{18}$ |  |
|  |  |  |  | Total 2 marks |



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| 8 (a) | 21/24-20/24 = 1/24 |  | 2 | B2 for both fractions written correctly with a common denominator, followed, if necessary, by cancelling to $1 / 24$ B1 for 1 correct fraction with denominator of a multiple of 24 |
| :---: | :---: | :---: | :---: | :---: |
| (b) | $5 / 8 \times 12 / 7$ or $15 / 24 \div 14 / 24$ | 60/56 | 2 | M1 leaving first fraction unchanged, changing $\div$ to $x$ and inverting the second fraction or converting each fraction with a common denominator of 24 oe with $\div$ sign <br> A1 $60 / 56$ from the $x$ or $15 / 14$ from the $\div$ |
|  |  |  |  | Total 4 marks |


| 9 | $\begin{aligned} & 5 y=14 \text { or } 7 y-2 y=14 \text { or } \\ & 5 y=8+6 \text { or } 5 y-14=0 \end{aligned}$ | 2.8 | 3 | M2 | for correct rearrangement with $y$ terms on one side AND correct collection of terms on at least one side or for correct collection to 2 terms <br> for correct rearrangement with $y$ terms on one side and numbers on the other eg $7 y-2 y=8+6$ OR correct collection and simplification of either numbers or $y$ terms eg $5 y-6=8$ or $5 y=a$ or $b y=14$ <br> 2.8 oe dependent on at least one M1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total 3 marks |



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| Question <br> Number | Working | Answer | Mark | Notes |
| :--- | :--- | :---: | :---: | :---: |
| 11 | $12: 8$ oe or 8:12 |  | 2 | M1 |
|  |  | 1.5 oe |  | A1 |
|  |  |  |  |  |


| 12 |  | translation | 2 | B1 | Also accept translated, translate etc | These marks are independent but award no marks if the answer is not a single transformation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\binom{-2}{1}$ |  | B1 | Also accept 2 to the left and 1 up |  |
|  |  |  |  |  |  | Total 2 marks |


| 13 (i) | $-1 \leq x<3$ | 4 | B2B1 for either $-1 \leq x$ or for $x<$ <br> 3 as a final answer |  |
| ---: | ---: | ---: | :---: | :---: | :---: |
| (ii) |  | $-1 \quad 0 \quad 1 \quad 2$ |  | B2B1 for 4 correct and 1 wrong <br> or for 3 correct and 0 wrong |
|  |  |  |  | Total 4 marks |


| 14 | $5.2^{2}+3.8^{2}$ or $27.04+14.44$ or <br> 41.48 |  | 3 | M1 for squaring and adding |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\sqrt{5.2^{2}+3.8^{2}}$ |  |  | M1 (dep) for square root |  |
|  |  | 6.44 |  | A1 for answer rounding to 6.44 |  |
|  |  |  |  |  | Total 3 marks |

