## Paper 1 \& Paper 2

## Finalised Marking Instructions

## Strictly Confidential

These instructions are strictly confidential and, in common with the scripts entrusted to you for marking, they must never form the subject of remark of any kind, except to Scottish Qualifications Authority staff. Similarly, the contents of these instructions must not be copied, lent or divulged in any way now, or at any future time, to any other persons or body.

## Marking

The utmost care must be taken when entering and totalling marks. Where appropriate, all summations for totals must be carefully checked and confirmed.

Where a candidate has scored zero marks for any question attempted, "0" should be entered against the answer.

## Recording of Marks

Where papers assess more than one element, care must be taken to ensure that marks are entered in the correct column.

The Total mark for each paper or element should be entered (in red ink) in the box provided in the top-right corner of the front cover of the answer book (or question/answer book).

Always enter the Total mark as a whole number, where necessary by the process of rounding up.
The transcription of marks, within booklets and on to the Mark Sheet, should always be checked.

## Form Ex6

- Add together KU totals from Paper 1 and 2
- Enter this final total in K \& U column on Form Ex6
- Do the same for RE


Paper 1


Paper 2


Ex6

## Markers are reminded that they must not write comments, words or acronyms on scripts. Please use ticks, crosses, lines or numbers.

## Special Instructions

1 The main principle in marking scripts is to give credit for the skills which have been demonstrated. Failure to have the correct method may not preclude a pupil gaining credit for the calculations involved or for the communication of the answer.

Care should be taken to ensure that the mark for any question or part question is entered in the correct column, as indicated by the horizontal line.

Where a candidate has scored zero marks for any question attempted, " 0 " should be shown against the answer in the appropriate column.

It is of great importance that the utmost care should be exercised in adding up the marks. Where appropriate, all summations for totals and grand totals must be carefully checked.

2 The answer to one part, correct or incorrect must be accepted as a basis for subsequent dependent parts of a question. Full marks in the dependent part is possible if it is of equivalent difficulty.

3 Do not penalise insignificant errors. An insignificant error is one which is significantly below the level of attainment being assessed.
eg
An error in the calculation of $16+15$ would not be penalised at Credit Level.

4 Working after a correct answer should only be taken into account if it provides firm evidence that the requirements of the question have not been met.

5 In certain cases an error will ease subsequent working. Full credit cannot be given for this subsequent work but partial credit may be given.

6 Accept answers arrived at by inspection or mentally, where it is possible for the answer to have been so obtained.

7 Do not penalise omission or misuse of units unless marks have been specifically allocated to units.

8 A wrong answer without working receives no credit unless specifically mentioned in the marking scheme.

The rubric on the outside of the Papers emphasises that working must be shown. In general markers will only be able to give credit to partial answers if working is shown. However there may be a few questions where partially correct answers unsupported by working can still be given some credit. Any such instances will be stated in the marking scheme.

9 Acceptable alternative methods of solution can only be given the marks specified, ie a more sophisticated method cannot be given more marks.

Note that for some questions a method will be specified.

10 In general do not penalise the same error twice in the one question.

11 Accept legitimate variations in numerical/algebraic questions.

12 Do not penalise bad form eg $\sin x^{0}=0 \cdot 5=30^{\circ}$.

13 A transcription error is not normally penalised except where the question has been simplified as a result.

2004 Mathematics SG - Foundation Level - Paper 1

## Marking Instructions

Award marks in whole numbers only

| Question No | Give 1 mark for each • | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: |
| 1 (a) | Ans: 634 <br> -1 correctly add 402, 159 and 73 | - ${ }^{1} \quad 634$ <br> 1K mark |
| (b) | Ans: $3 \cdot 3$ <br> - ${ }^{1} \quad$ correctly subtract $5 \cdot 8$ from $9 \cdot 1$ | - ${ }^{1} \quad 3 \cdot 3$ <br> 1K mark |
| (c) | Ans: 12 <br> $\bullet \bullet^{2}$ find one ninth of 108 <br> (award 1 for attempting to divide 108 by 9 ) | - $108 \div 9$ <br> - ${ }^{2} \quad 12$ <br> 2K marks |
| 2 | Ans: £ $8 \cdot 50$ <br> -1 know how to find $50 \%$ of 17 <br> - ${ }^{2} \quad$ carry out calculation correctly | - ${ }^{1} \quad 17 \div 2$ or equivalent <br> - $8 \cdot 5(0)$ <br> 2K marks |
| Notes: <br> 1. $8 r 1,8 \cdot 1$ (no working necessary) award $1 / 2$ |  |  |


| Question No | Give 1 mark for each • | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: |
| 3 | Ans: $£ 25 \cdot 92$ <br> - ${ }^{1}$ know how to find pay <br> $\bullet \quad$ find pay | $\bullet^{1} \quad 4 \cdot 32 \times 6$ |
| Notes: |  |  |




| Question No | Give 1 mark for each • | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: |
| 7 | Ans: 14 <br> - ${ }^{1}$ know that car + cycle $=\frac{1}{4}$ of 80 <br> -2 know that car $=\frac{1}{4}$ of $80-6$ <br> - ${ }^{3} \quad$ carry out calculations correctly (must involve $\div$ and - ) | - $\quad$ car + cycle $=\frac{1}{4}$ of 80 <br> - $2 \quad \operatorname{car}=\frac{1}{4}$ of $80-6$ <br> $\bullet 314$ <br> 3R marks |
| Notes: <br> 1. 20 <br> 2. (a) <br> (b) | $\begin{aligned} & {\left[\begin{array}{l} \left.\frac{1}{4} \text { of } 80\right] \quad \text { (no working necessary) } \\ \frac{1}{4} \text { of } 100-6=19 \\ \frac{1}{4} \text { of } 360-6=84 \end{array}\right\} \quad \text { (working must b }} \end{aligned}$ | award 1/3 <br> shown) <br> award 2/3 |



## 2004 Mathematics SG - Foundation Level - Paper 2

## Marking Instructions

Award marks in whole numbers only



| Question <br> No | Give 1 mark for each • | Illustrations of evidence for awarding <br> each mark |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{4}$ (a) | Ans: |  |  |


| $\begin{aligned} & \hline \text { Question } \\ & \text { No } \end{aligned}$ | Give 1 mark for each • |  |  | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: | :---: | :---: |
| 5 (a) | Ans: <br> - ${ }^{1} \quad$ communi form <br> -2 communi form <br> $\bullet^{-3} \quad \begin{aligned} & \text { communi } \\ & \\ & \text { form }\end{aligned}$ | Tally <br> III <br> НІ <br> I <br> II <br> I <br> e infor <br> infor <br> e infor | Frequency <br> 3 <br> 5 <br> 1 <br> 2 <br> 0 <br> 1 <br> nation in tabular <br> nation in tabular <br> mation in tabular | two frequencies correct <br> another two frequencies correct <br> another two frequencies correct <br> 3K marks |
| Notes: <br> 1. Do not penalise omission of " 0 " from frequency column. <br> 2. Allow one error in converting tallies to frequencies. <br> 3. If frequency column blank and frequencies given in tally column then apply marking instructions. <br> 4. If frequency column is blank or entries show misunderstanding of frequency but <br> (a) all tallies correct award $2 / 3$ <br> (b) 4 or 5 tallies correct award $1 / 3$ |  |  |  |  |
| (b) | Ans: 19 <br> - ${ }^{1} \quad$ identify $n$ |  |  | $0^{1} \quad 19$ <br> 1K mark |
| Notes: |  |  |  |  |



| Question No | Give 1 mark for | each • | Illus | of evidenc each mar | warding |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | Ans: 4m 10s <br> - ${ }^{1}$ know how to find total time <br> - ${ }^{2} \quad$ find total time <br> - ${ }^{3}$ convert to minutes and second |  | - ${ }^{1} \quad 10 \times 25$ <br> -2 250 <br> - $3 \quad 4 \mathrm{~m} 10 \mathrm{~s}$ <br> 3K marks |  |  |
| 1. $\left.\begin{array}{l}2 \mathrm{~m} \mathrm{50s} \\ 4 \mathrm{~m} \mathrm{17s}, 4 \mathrm{~m} 16 \mathrm{~s}(250 \div 60)\end{array}\right\} \quad$ (no working necessary) award $2 / 3$ |  |  |  |  |  |



3. Disregard subsequent calculations after length has been found eg area

| $\begin{aligned} & \hline \text { Question } \\ & \text { No } \end{aligned}$ | Give 1 mar | each • | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: | :---: |
| (b) | Ans: 9cm <br> - ${ }^{1} \quad$ know how to <br> -2 know how to length <br> - ${ }^{3}$ carry out calcu | ale factor <br> le factor to find <br> correctly | - ${ }^{1} \quad \frac{12}{36}$ or $\frac{36}{12}$ or $\frac{27}{36}$ or $\frac{36}{27}$ <br> - $27 \times \frac{12}{36}$ or $27 \div \frac{36}{12}$ or $12 \times \frac{27}{36}$ <br> or $12 \div \frac{36}{27}$ <br> $\bullet^{3} \quad 9$ |
| Notes: |  |  |  |
| 1. 9 | without working |  | award 0/3 |
| 2. Answer |  | with working | without working |
| (a) $8 \cdot 91(0 \cdot 33 \times 27)$ |  | award $2 / 3$ | award 2/3 |
| (b) $8 \cdot 1\left(\frac{12}{36} \rightarrow 0 \cdot 3 \times 27\right)$ |  | award $2 / 3$ | award 1/3 |
| (c) $16\left[36 \div \frac{27}{12}\right.$ or $\left.36 \times \frac{12}{27}\right]$ |  | award $1 / 3$ | award 0/3 |
| (d) $18(27 \div 1 \cdot 5)$ |  | award 1/3 | award 0/3 |


| $\begin{aligned} & \hline \text { Question } \\ & \text { No } \end{aligned}$ | Give 1 mark for each - | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: |
| 10 (a) | Ans: 'Alan' in box C6 <br> - ${ }^{1}$ plot correctly | $\bullet{ }^{1 \times}$ 'Alan' written in box C6 |
| Notes: <br> 1. Accept any clear indication of C6 alone. |  |  |
| (b) | Ans: £10 <br> - ${ }^{1}$ know how to find number of boxes <br> - ${ }^{2}$ know how to find takings <br> - 3 find takings <br> - ${ }^{4} \quad$ subtract 8 correctly | ${ }^{-1} \quad 9 \times 10$ <br> -2 boxes $\times 20$ <br> ${ }^{3} \quad(£) 18$ <br> - ${ }^{4} \quad(£) 10$ <br> 4R marks |
| Notes: <br> 1. An | swers acceptable for partial credit (no workin $\begin{aligned} & 8 \cdot 2(0)(9 \times 9 \times 20 \mathrm{p}-£ 8) \\ & 16 \cdot 2(0)(9 \times 9 \times 20 \mathrm{p}) \\ & -6 \cdot 6(0) \text { or } 6 \cdot 6(0) \text { loss }(7 \times 20 \mathrm{p}-£ 8) \\ & 6 \cdot 6(0)(£ 8-7 \times 20 \mathrm{p}) \\ & 1 \cdot 4(0)(7 \times 20 \mathrm{p}) \end{aligned}$ | g necessary) award $3 / 4$ award $2 / 4$ award $2 / 4$ award $1 / 4$ award $1 / 4$ |


| $\begin{aligned} & \text { Question } \\ & \text { No } \end{aligned}$ | Give 1 mark for each • | Illustrations of evidence for awarding each mark |
| :---: | :---: | :---: |
| 11 (a) | Ans: $\mathbf{1 4} \mathbf{7 0 0} \mathrm{cm}^{3}$ <br> - ${ }^{1} \quad$ know to multiply $35 \times 28 \times 15$ <br> - ${ }^{2}$ multiply $35 \times 28 \times 15$ correctly | - $1 \quad 35 \times 28 \times 15$ <br> -2 14700 <br> 2K marks |
| (b) | Ans: $\mathbf{3 . 5 \mathrm { cm }}$ <br> $\bullet^{1} \boldsymbol{e}^{2}$ correct method <br> - ${ }^{3}$ carry out two divisions correctly | - ${ }^{1} \bullet^{2} \quad 35 \div 5 \div 2$ or $28 \div 4 \div 2$ <br> (award 1 for $35 \div 5$ or $28 \div 4$ ) <br> -3 $3 \cdot 5$ <br> 3K marks |
| Notes: |  |  |
| (c) | Ans: 60 <br> - ${ }^{1}$ know how to find number of layers <br> -2 know how to find number of tins <br> -3 carry out calculations correctly | - ${ }^{1} \quad 15 \div 5$ <br> -2 $\quad$ layers x 20 <br> - ${ }^{3} \quad 60$ <br> 3R marks |
| Notes: |  |  |




KU 24 marks
RE 30 marks

| FINAL | KU 39 |
| :--- | :--- |
| TOTALS | RE 41 |

[END OF PAPER 2 MARKING INSTRUCTIONS]

