## Mark Scheme - Final Version

## January 2009

Functional Skills

## Maths Level 1 (FM101/01) Pilot

## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.


| FM101/01 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| No | Working | Answer | Mark | Notes |
| 5 (a) |  | 3 | 1 | B1 cao |
| (b) |  | $12^{\text {th }}$ January | 1 | B1 Accept " 2 nd week in January" or $12{ }^{\text {th }}$ |
| (c) |  | $5^{\text {th }}$ January | 1 | B1 Accept " $1^{\text {st }}$ week in January" or $5^{\text {th }}$ |
| (d) |  | $2^{\text {nd }}$ February | 1 | B1 Accept " 1 st week in February" or $2^{\text {nd }}$ NB: for (b), (c), (d) accept $2^{\text {nd }}, 1^{\text {st }}, 5^{\text {th }}$, if consistent. |
| (e) | Bars of height 2, 8, 6 | Graph | 2 | M1 for process of drawing graph by showing 3 columns, at least 2 correct heights. <br> A1 Three correct columns, correct heights, correct shading (distinct \& linked to key given); allow misplacing by 1 column horiz to right but no gaps between columns. |
| (f) |  | Conclusion | 1 | B1 one conclusion eg (bookings are) falling; description of a trend |
| 6 (a) |  | £12000 | 1 | B1 cao |
| (b) | £27190-£11885= | £15305 | 1 | B1 cao |
| 7 | $\begin{aligned} & (100 \times 2)+(32 \times 15 \times 2)=200+960= \\ & \text { or } \\ & 32 \times 15=480,480+100=580,580 \times 2= \end{aligned}$ | $£ 680$ or £1160 | 3 | M1 process of calculating either $100 \times 2$ or $32 \times 15 \times 2$, implied by sight of 200 or 960 or $32 \times 15=480$ or +100 (implied by 580 ) M1 for full process of $(100 \times 2)+(32 \times 15)$ or $(100 \times 2)+(32 \times 15 \times 2)$ or $200+480$ or $200+960$ A1 $£ 680$ or $£ 1160$ |
| 8 (a) | $1+3+1+3$ | 8 | 2 | M1 for process of adding guests to the diagram or attempts to find the perimeter <br> A1 cao |
| (b) | $8 \times 2+2=18$ | 18 | 2 | M1 for process of adding guests, perhaps shown on a partial diagram indicating more than 5 tables, or sight of $8 \times 2$ or attempts to find the perimeter for more than 5 tables A1 cao |
| (c) | $8 \times 4=$ | 32 | 2 | M1 for groups of 4 indicated, or $\times 8$; need more than 5 tables. <br> A1 cao |


| FM101/01 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| No | Working | Answer | Mark | Notes |
| 9 | EFDACB, EFADCB, EDFACB, EAFDCB | Correct order | 2 | B2 for all correct <br> (B1 for at least 4 letters placed consecutively) |
| 10 (a) <br> (b) | $\begin{aligned} & 264153 \\ & 65000+60800+47500= \end{aligned}$ | $\begin{aligned} & \hline 264153 \\ & £ 173300 \\ & \text { millions } \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | B2 cao <br> (B1 for at least 3 of the order correct) <br> B2 for full answer, <br> (B1 if numerically correct but incorrect/omitted <br> £ \& millions |
| 11. (a) <br> (b) |  | 33-36 | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | B1 33-36 inclusive <br> B1 ft angle given to nearest material in table, if angle is between $20^{\circ} \& 40^{\circ}$. <br> NB: $55^{\circ}$ linked to Mild Steel scores B0 |
| 12. (a) <br> (b) |  | $\begin{aligned} & 260^{\circ} \mathrm{C} \\ & -65^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | B1 cao <br> B1 cao |
| 13. (a) <br> (b) <br> (c) | $\begin{aligned} & 2 \times £ 2.99= \\ & (3 \times £ 2.39)+(2 \times £ 9.99)=£ 7.17+£ 19.98 \\ & =£ 27.15 \\ & £ 30-£ 27.15=£ 2.85 \end{aligned}$ | $\begin{aligned} & £ 2.99 \\ & £ 5.98 \\ & \\ & £ 2.85 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | B1 cao <br> M1 for $£ 2.99$ or sight of $\times 2$ or digits 598 <br> A1 cao <br> M1 for process of finding $3 \times 2.39(=7.17)$ or $2 \times 9.99$ (=19.98) or 27.15 <br> M1 (dep) for addition of parts and subtraction from $£ 30$, or sight of $£ 30$ - " $£ 27.15$ " <br> A1 cao <br> SC: B2 for digits 285 |
| 14. (a) <br> (b) | $\begin{aligned} & 74.5-11.5 \\ & 24 \times 14.3= \end{aligned}$ | $\begin{aligned} & \hline 63 \mathrm{~g} \\ & 343.2 \mathrm{~mm} \text { or } \\ & 34.32 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | B1 cao <br> B2 for correct numerical answer with appropriate units <br> (B1 for correct numerical answer OR appropriate units with approximate answer) |


| No | Working | Answer | Mark |  |
| :---: | :--- | :--- | :--- | :--- |
| 15. | (a) | (i) | 50.01 | 1 |
| (ii) | B1 cao |  |  |  |
|  | (b) | $\frac{1}{100}$ | $\frac{1}{100}$ | Botes |

Total for paper: 60 marks

