## MARK SCHEME for the October/November 2013 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/03 Paper 3 (Core), maximum raw mark 96

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

| Page 2 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | IGCSE - October/November 2013 | 0607 | $\mathbf{0 3}$ |


| (a) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Page 3 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | IGCSE - October/November 2013 | 0607 | 03 |



| Page 4 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | IGCSE - October/November 2013 | 0607 | 03 |


| (d) | Ana | 1 FT | FT their (a)(i) and (b) |
| :---: | :---: | :---: | :---: |
| $\begin{equation*} 7 \quad \text { (a) } \tag{i} \end{equation*}$ <br> (ii) <br> (b) | Reflection, $x=7$ <br> Translation $\binom{-8}{-6}$ <br> Shape with coordinates $(-2,2),(-5,2),(-5,4),(-6,4)$, $(-6,5)$ and $(-2,5)$ | $\begin{gathered} 1,1 \\ 1,1 \\ 2 \end{gathered}$ | Accept in words <br> SC1 for correct reflection in the $x$-axis or reflection in $y=k$ |
| $\begin{array}{ll} 8 & \text { (a) } \\ & \text { (b) } \end{array}$ | 16 and 13 $31-3 n$ | $\begin{gathered} 1,1 \\ 2 \end{gathered}$ | M1 for $-3 n+k$ or $31+k n$ |
| $9 \quad$ (a) <br> (b) <br> (c) | Pentagon <br> 540 $105$ | $\begin{gathered} 1 \\ 2 \\ \\ 2 \text { FT } \end{gathered}$ | M1 for attempt to divide into triangles or $(5-2) \times 180 \text { oe }$ <br> M1 for their $540-(90+85+$ $135+125$ ) FT only if the answer is positive |
| 10 (a) <br> (b) <br> (c) <br> (ii) <br> (iii) | $1,2,3,4,6,12$ $3$ <br> 1 $5$ | 2 FT <br> 1 FT <br> 1 FT <br> 1 FT | Award B1 for one correct subset |


| Page 5 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | IGCSE - October/November 2013 | 0607 | 03 |



| Page 6 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | IGCSE - October/November 2013 | 0607 | $\mathbf{0 3}$ |



