# MARK SCHEME for the May/June 2011 question paper for the guidance of teachers 

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/05
Paper 5 (Core), maximum raw mark 24

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 must be read in conjunction with the question papers and the report on the examination.

- Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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| 5 (a) <br> (b) | One from $\begin{array}{ll} p=10 & i=0 \\ p=8 & i=1 \\ p=4 & i=3 \end{array}$ | ( | B1 isw <br> B1 | Communication for evidence of using (maybe correctly) $p+2 i-2=8$ or $p$ $+2 i=10$ <br> Other quadrilaterals are possible <br> Corresponding to their correct $p$ and $i$ <br> If (a) wrong or omitted: accept a different quadrilateral from that in the question with $p=6$ and $i=2$ |
| :---: | :---: | :---: | :---: | :---: |
| 6 | $p=2$ gives a line oe | 1 | R1 | $p=3$ is the smallest value to give an area Reference must be made to dots or $p$ |
| 7 | $\begin{array}{lrrrrrr}(p) & 4 & 6 & 8 & 10 & 12 & 14 \\ (i) & 5 & 4 & 3 & 2 & 1 & 0\end{array}$ |  | B3 | $+\frac{1}{2}$ for each correct pair. <br> $-\frac{1}{2}$ for each wrong pair. Round down <br> Communication for reasoning using Pick's equation |
|  |  | 1 | C1 for one communication mark in questions 4, 5(a) or 7 |  |

