## MARK SCHEME for the May／June 2013 series

## 0444 MATHEMATICS（US）

0444／11 Paper 1 maximum raw mark 56

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 May／June 2013 series for most IGCSE，GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components．


| Qu | Answers | Mark | Part Answers |
| :---: | :---: | :---: | :---: |
| 1 | $\frac{9}{20} \text { cao }$ | 1 |  |
| 2 | 11 or -11 | 1 |  |
| 3 | -9 or -23 | 2 | B1 for 7 or 16 seen |
| 4 | 72 | 2 | M1 for $84 \div 7$ |
| 5 | 105 | 2 | M1 for 180-55-50 or B1 for 55 or 75 seen in the correct angle inside the triangle |
| 6 | 8 | 2 | M1 for $\frac{3 k}{2 k} \times \frac{16 n}{3 n}$ |
| $7 \quad$ (a) <br> (b) | $\begin{aligned} & \binom{6}{-8} \\ & (-1,1) \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | If zero, $\mathbf{S C 1}$ for vector $Q P$ |
| 8 | [ $b=] 5(a+9)$ oe final answer | 2 | M1 for one correct step |
| $\begin{array}{ll} 9 & \text { (a) } \\ & \text { (b) } \end{array}$ | $\begin{aligned} & 32 \\ & 7 n-3 \text { oe } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | B1 for 7n |
| 10 (a) <br> (b) | $\begin{aligned} & -6 \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | B1 for $\frac{12}{16}$ or $\frac{14}{16}$ or $\frac{13}{16}$ seen |
| 11 (a) <br> (b) | $[0] .55 \mathrm{oe}$ $18$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | M1 for $40 \times[0] .45$ oe |
| 12 (a) <br> (b) <br> (c) | cuboid <br> pentagon <br> obtuse |  | condone [rectangular] prism |


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| $\mathbf{1 3}$ (a) | 7 | $\mathbf{1}$ |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | (b) | 37.5 | $\mathbf{1}$ |  |
| $\mathbf{1 4}$ |  | 32.64 cao final answer | $\mathbf{1}$ |  |


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