## Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

## CAMBRIDGE INTERNATIONAL MATHEMATICS

$0607 / 53$
Paper 5 (Core)
October/November 2016
MARK SCHEME
Maximum Mark: 24

## Published

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.

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Cambridge is publishing the mark schemes for the October/November 2016 series for most Cambridge IGCSE ${ }^{\circledR}$, Cambridge International A and AS Level components and some Cambridge O Level components.

| Page 2 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | Cambridge IGCSE - October/November 2016 | 0607 | 53 |

## Abbreviations

awrt answers which round to
cao correct answer only
dep dependent
FT follow through after error
isw ignore subsequent working
oe or equivalent
SC Special Case
nfww not from wrong working
soi seen or implied


| Page 3 | Mark Scheme | Syllabus | Paper |
| :---: | :---: | :---: | :---: |
|  | Cambridge IGCSE - October/November 2016 | 0607 | 53 |


| Question | Answer | Marks | Part Marks |
| :---: | :---: | :---: | :---: |
| $4 \quad$ (a) <br> (b) <br> (c) | $[a=] \frac{3}{2} \text { oe } \quad[b=] 1$ <br> Substitution of 7 in their formula $20$ | 1 | B2 for either $a$ or $b$ correct If 0 scored $\mathbf{S C 2}$ for $\frac{n^{2}+3 n+2}{2}$ seen or M1 for one correct substitution of $T$ and $n$ C opportunity <br> FT <br> M1 for $n^{2}+3 n+2=462$ <br> or for sketch <br> or for correct sequence to 15 th term or further |
| 5 | 496 | 1 | FT from their formula in 4(a) C opportunity |
| Communi <br> 1 (c) <br> 1 (d) <br> 1 (f) <br> 4 (a) <br> 5 | ation: Seen in one of the following questions <br> Method of counting (implied addition), e.g. drawing or $5+4+3+2+1$ Or listing rectangles <br> Differences shown <br> Working shown, e.g. sequence continued - 45, 55, 66 <br> Working shown e.g. difference method or substitution to give two equations <br> Working shown e.g. substitution | 1 |  |

