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CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

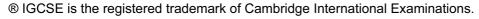
0607/53 Paper 5 (Core), maximum raw mark 24

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 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 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.





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Syllabus	P. My
0007	E 2 9/4

			3, 2
Page 2	Mark Scheme	Syllabus	Pr. Maria
	Cambridge IGCSE – May/June 2015	0607	53
			30%
Abbrev	iations		Olyd, Co
cao	correct answer only		O'M
den	denendent		

Abbreviations

dependent dep

follow through after error FT ignore subsequent working isw

or equivalent oe Special Case SC

not from wrong working nfww

seen or implied soi

		<u></u>		
1	(a)	561 601 641	1 1 1	If 0 scored SC1 for $24^2 - 3 \times 5$ $25^2 - 4 \times 6$ $26^2 - 5 \times 7$ all correct in working
	(b)	Increasing by 40 or 641 + 40	1	
	(c)	801	1	C opportunity
2	(a)	3561	2	M1 for their 99^2 – their $78 \times$ their 80
	(b)	Ten or 10	1	
	(c)	(top right) $n+2$ oe	1	
		(bottom) $n+21$ oe	1	
	(d)	$[(n+21)^2 - n(n+2)]$ $n^2 + 42n + 441 - n^2 - 2n oe$	2	B1 for $n^2 + 42n + 441$ B1 for $-n^2 - 2n$ or B1 for 481, 521, 561, 601 with differences 40, 40, 40 B1 dep for calculation to find 441
	(e)	55	1	C opportunity
	(f)	All T-results end in 1 oe [and this ends in 0 oe] or $[n =]$ 10.05 and n must be integer oe	1	
3	(a)	617 749 881	2	B1 for one correct
	(b) (i)	44n + 529	2	B1 for $44n + k$ or $jn + 529$ C opportunity
	(ii)	$44 \times 10 + 529 = 969$ and	1FT	FT <i>their</i> formula with $n = 10$
		$33 \times 33 - 10 \times 12 = 969$	1	

Page 3	Mark Sch	neme	Syllabus	P. Thank all
	Cambridge IGCSE -	- May/June 2015	0607	53
·	_			SCIOUN
4	$[n+1 \qquad n+2]$			*.C-
	n+w+1	1		On
	n + 2w + 1	1FT	FT their nattern adding only	10 each

4	[n+1 n+2] n+w+1 n+2w+1 n+3w+1	1 1FT 1FT	FT <i>their</i> pattern adding only 10 each time
Communication seen in one of 1(c), 2(e), 3(b)(i)		1	