CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/52

Paper 5 (Core), maximum raw mark 24

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Abbreviations

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

1	(a)		H H H H	1	
	(b)	(i)	8, 10, 12, 14	1	
		(ii)	26	1	
		(iii)	2c + 2	2	B1 for 2 <i>c</i> C opportunity
		(iv)	49	1FT	FT their (b)(iii) providing linear formula C opportunity
2	(a)		c h o t 3 8 1 12	1	
	(b)		3c + 3 oe	2	B1 for 3 <i>c</i> C opportunity
3	(a)			1	Both diagrams correct
	(b)		4 3 5 4 6 5	1	
	(c)		m	1	
	(d)		96	1	

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4	(a) (b)		8 10 10 13 12 16 2m oe	1	
		(ii)	3m-2 oe	2	B1 for 3 <i>m</i> oe C opportunity
	(c)		148	2FT	B1 FT for <i>their</i> 50 soi FT <i>their</i> 50 in <i>their</i> formula for <i>r</i> C opportunity
5	(a)		$\begin{array}{c ccccc} h & s & r \\ \hline 1 & m & m-1 \\ 2 & 2m & 3m-2 \\ \hline 3 & 3m & 5m-3 \\ 4 & 4m & 7m-4 \\ \hline 5 & 5m & 9m-5 \\ 6 & 6m & 11m-6 \\ \hline \end{array}$	2	B1 for row 4 or 6 correct or either column correct
	(b)	(i)	hm oe	1	
		(ii)	(2h-1)m-h oe isw	1	oe
	Communication seen in two of 1(b)(iii), 1(b)(iv), 2(b), 4(b)(ii), 4(c)		1		