

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/51

Paper 5 (Core), maximum raw mark 24

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Abbrevi	ations	S. S
cao	correct answer only	

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)	3	1	
	(b)		1	
	(c)	Height 1 2 3 4 5 6 Cubes 1 3 6 10 15 21	2	B1 for 15 B1 for 21
		Cubes 1 3 6 10 15 21		
	(d)	55	1	C opportunity
	(e) (i)	13	1	C opportunity
	(ii)	9	1	FT <i>their</i> (i) if answer <13
2	(a)	16	1	
	(b)	· · · · ·	1	
		· · · · ·		

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Pag	je 3		Mark Scheme Cambridge IGCSE – May/June 2015											P. Mai	Maths)
	(c)		Height Cubes	1	2 4	3 9	4 16	5 25	6 36		1	B1 for 25 at	nd 36		AN HARINS CIOUD.COM
	(d)		Square [numbers]								1				
	(e)		100												
	(f)		n^2 or n	$\times n$ (or 1 <i>n</i>	² cao					1				
3	(a)		6								1				
	(b)		Height Cubes	1 2	2 6	3 12	4 20	5 30	6 42		2		of 20, 30, 42 <i>their</i> 1(c) wit		
	(c)		110								1	C opportun	ity		
	(d)	(i)	() $n^2 + n \text{ or } n(n+1)$ oe								2	If 0 scored B1 for kn^2 ($k \neq 0$)			
		(ii)	15								1				
	(e)		DOUBLE staircase = UP AND DOWN staircase + height (number of steps) oe							se	1				
4	(a)		Double staircase = 2 times UP staircase oe								1				
	(b)		$\frac{1}{2}n^2 + \frac{1}{2}n$ or $n \times \frac{1}{2}n + \frac{1}{2}n$ oe								1FT	FT $\frac{1}{2} \times thei$	r 3(d)(i)		
Communication seen in two of 1(d), 1(e)(i), 3(c), 3(d)(ii)										1]	