

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12

Paper 1 (Core), maximum raw mark 40

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			WWW. IN STRATES
Page 2	Mark Scheme	Syllabus	P. M. Strange
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Abbrevi	ations		-Cloud.co.
cao	correct answer only		N.
dep	dependent		

Abbreviations

cao	correct answer only
dep	dependent

- FT follow through after error
- ignore subsequent working isw
- or equivalent oe
- Special Case SC
- not from wrong working nfww
- seen or implied soi

1	(a)	5	1	
	(b)	1	1	
2		1 2 4 8 16	2	B1 for 3 or 4 factors in list of maximum 5 numbers
3		1.15	2	M1 for $5 - (1.50 + 2.35)$ oe
				If 0 scored, SC1 for 115
4	(a)	$\frac{1}{17}$	1	
	(b)	-2, 1, 6	2	B1 for terms increasing by 3 and then 5 orB1 for any correct term seen on answer line
5	(a)	6	1	
	(b)	2.5	2	M1 for ordered list (6 in correct order) or 2 and 3 identified as either side of the median
	(c)	2.9	2	M1 for method for total Σ f soi by 29
6	(a)	95	2	M1 for $180 - 40 - 55$ or better or $40 + 55$
	(b)	130	1	
		Corresponding	1	
7		560	1	
8	(a)	3.46×10^2	1	
	(b)	2.16×10^{-3}	1	
9		$\frac{20+30}{0.5}$	M1	If 0 scored, SC1 for two of 20, 30 or 0.5 seen
		100	A1	
10		Correct shape in correct place.	2	If 0 scored, SC1 for correct size & orientation or SC1 for 3 or 4 points correct

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Page 3	Mark Scheme Syllabus P. J. J. Scheme Syllabus P. J. J. Scheme Syllabus P. J. J. Scheme Syllabus P. J. Scheme Scheme Strategy Scheme Sch						
11	x + 4 final answer	1		, COM			
12	$[r=] \sqrt{\frac{A}{4\pi}}$ or $\frac{\sqrt{A}}{\sqrt{4\pi}}$ oe final answer	2	M1 for $[r^2 =] \frac{A}{4\pi}$ or $\sqrt{A} = \sqrt{4\pi r^2}$ or better				
13	Correctly eliminating one variable	M1					
	[x =] 1 [y =] 2	A1 A1	If 0 scored, SC1 for correct substitution and evaluation to find the other variable.				
			SC1 if no working shown, but 2 correct answers given.				
14 (a)	A correct B correct	1 1					
(b)	$-\frac{3}{4}$ oe	2FT	M1 for $\frac{\text{rise}}{\text{run}}$ attempted from <i>their</i> points provided <i>their A</i> and <i>B</i> do not have same <i>y</i> co-ordinate				
15 (a)	Correct probabilities on branches	1					
(b)	$\frac{1}{25}$	2	M1 for $\frac{1}{5} \times \frac{1}{5}$ oe				
16 (a)	Е	1					
(b)	В	1					