CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2014 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/21

Paper 2 (Extended), maximum raw mark 40

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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Ρa	gezpp		ark Scheme		Syllabusw	14 Paper
		Cambridge IGCS	E – October/Nov	vember 2014	0607	21
1	(a)	10 - (4 + 3) + 2 = 5	1			
	(b)	$(10-5) \times (7+2) = 45$	1			
2	(a)	108	3	M2 for $\frac{(5-2) \times 180}{5}$ or	$180 - \frac{360}{5}$	
				or M1 for $(5-2) \times 180$ or M1 for $\frac{360}{5}$	soi by 540	
	(b)	132	2FT	M1 for 360 – <i>their</i> 108 – or <i>their</i> 72 + 60	- 120	
3	(a)	1	1			
	(b)	$\frac{1}{4}$ or 0.25	2	M1 for 2 or 64 seen or re	eciprocal at an	y stage
4	(a)	1, 3023	1			
	(b) (i)	1	1			
	(ii)	pq	1			
5	(a)	x < 4 final answer	3	B1 for $3x + 6 > 5x - 2$ M1 FT for isolating term M1 FT for completion c space If 0 scored SC1 for $x = 4$	orrectly to ans	swer
	(b)	Correct diagram	2FT	B1FT 4 marked and arro or for circle at 4	w/line to left	
6	(a)	$\frac{62}{200}$ oe	1			
	(b) (i)	Large sample oe	1			
	(ii)	372	1FT			
7	(a)	40	1			
	(b) (i)	40	1			
	(ii)	68	1			
8	(a)	-3	1			
	(b)	$\frac{10a}{b}$	2	M1 for $\frac{a}{b} \times 10^{-2}$ seen		

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9	A $y = 2x + 3$ B $y = -3x$ C $y = x^2 - 3$	4	B1 each
10 (a)	D $y=3-x^2$ 2(2a+5b)(2a-5b) final answer	3	B2 for $(4a + 10b)(2a - 5b)$ or (2a + 5b)(4a - 10b) or B1 for $2(4a^2 - 25b^2)$
(b)	$\frac{8x-19}{(2x-3)(x-5)}$ final answer	3	Accept $2x^2 - 13x + 15$ M2 for $\frac{2(x-5) + 3(2x-3)}{(2x-3)(x-5)}$ or M1 for common denominator $(2x-3)(x-5)$
11 (a)	3	1	
(b)	75	2	B1 for [log] 25 seen