CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2014 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/11 Paper 1 (Core), 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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



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Page 2			Mark Scheme	Syllabus	Paper		
			IGCSE – May/June 2014			0607	11
1		5		1			
2		240		1			
3	(a)	46.8	}	1			
	(b)	59.9	90	1			
4	(a)	Dia	meter	1			
		Sect	tor	1			
		Arc		1			
	(b)	103	$^{\circ} \pm 2^{\circ}$	1			
5	(a)	Plot	<i>A</i> (-3, 2)	1	See ×	or point marked	
	(b)	(2, 3	3)	1			
	(c)	(1,0	).5)	1			
6	(a)	120		3	and M Alt m M1 fe	or $360 \div 6$ oe <b>11</b> for $180 - their (10)$ <b>nethod</b> or $(6-2) \times 180$ oe <b>11</b> for <i>their</i> 720 ÷	
	(b)	Ang 135	gles at a point add up to 360 + 135 + 90 [= 360]	B1 B1			
7		$\begin{pmatrix} -2\\5 \end{pmatrix}$	4)	2		or each. C1 for $\begin{pmatrix} 4\\-5 \end{pmatrix}$	
8		$\frac{5}{6}$		1			
9	(a)	All	4 arrows correct i.e. $x^2$	2	<b>B1</b> fo	r any 3 arrows corr	ect.
	(b)	$0,\pm$	1, ±2 oe	1			
	(c)	Mar	ny-to-one written or indicated	1			

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Page		3 Mark Scheme			Syllabus	Paper	
			IGCSE – May/June 201	4		0607	11
10	(a)	-	e with vertices at 0), (-8, 2), (-6, 6) and (-4, 6)	2	SC1	<b>SC1</b> for reflection in the <i>x</i> -axis.	
	(b)	Shape with vertices at (2, 0), (4, 1), (3, 3) and (2, 3)		3	<b>B2</b> for correct size and orientation, wrong place or <b>B2</b> for correct apart from error in 1 vertex or <b>B1</b> for incorrect scale factor, centre (0, 0) or <b>B1</b> for any enlargement, sf $\neq$ 1		
11	(a)	32		2	<b>M1</b> for $4 \times 3p$ or $4 \times 5t$ or $4 \times 8$ seen.		
	(b) (i)	8		2	<b>M1</b> f	or correct first step	
	(ii)	3		3	and I	for $4x - 5 = 7$ or $16x$ <b>M1</b> for $4x = 12$ or $1$ <i>T their</i> first step ( <i>ax</i> )	6x = 48
12	(a)		• • • • • • • • •	1			
	(b)	12, 2	0, 28	2	<b>B1</b> fo	or 2 correct	
	(c)	8 <i>n</i> –	4	2	<b>M1</b> f	or $8n+j$ or $kn-$	4 where $j, k \neq 0$