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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2014 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

**0607/12** 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 So		Syllabus	Pap	
			IGCSE – May/June 2014		14	0607	Pape Thath
1	(a)	70		1			
	<b>(b)</b>	17		2	<b>M1</b> for 20 or 3 sec	en	
	(c)	23 ca	10	1			
	(d)	3.07	$\times 10^5$	1			
2		50:5	50	1			
3	(a)	3 <i>x</i> +	3y  or  3(x+y)	2	<b>M1</b> for $x + 2x + 3$	y	
	(b)	18		2FT	<b>M1</b> for their $3 \times 2$	$2 + their 3 \times 4$ or	8 + 4 + 6 seen
4		UQ = LQ =		2	B1 for each or SC1 if reversed or SC1 for a corre		t
5	(a)	Corre	ect line drawn	1			
	(b)	(1, -2	2)	1FT	FT their (a)		
6		36 cm <sup>3</sup>		2 1	<b>M1</b> for $3 \times 4 \times 3$	oe	
7		C D	ВА	2	M1 for three cont or correctly conve or SC1 for ordere	erting all to a con	
8	(a)	6 and	18	2	<b>B1</b> for each in cor	rect order	
	(b)	2 <i>x</i> +	3	2	<b>B1</b> for $2x + j$ or $k$	$x + 3$ , $j$ and $k \neq$	0
9	(a)	$1\frac{1}{24}$	or $\frac{25}{24}$	2	M1 for multiple o	of 24 in both deno	ominators
	(b)	$\frac{1}{4}$		2	M1 for $\frac{6}{24}$ or be	tter seen	
	(c)	$1\frac{17}{24}$	or $\frac{41}{24}$	3	<b>M2</b> for $2 - \frac{7}{24}$ or		
					M1 for $\frac{27}{8}$ or $\frac{5}{3}$ and		
					M1 for multiple o	of 24 in both deno	ominators

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Page 3 Mark S		ark Scheme	Scheme Syllabus		Pap. 73	
		IGCSE -	– May/June 20 <sup>-</sup>	14	0607	12
				_		12 ************************************
10 (a)			2	<b>B1</b> for 7(pq +	(2p - pt) or $p(7q +$	14-7t)
	Final	answer				

10 (a)	7p(q+2-t)	2	<b>B1</b> for $7(pq + 2p - pt)$ or $p(7q + 14 - 7t)$
	Final answer		
(b)	8b - 32a or $8(b - 4a)$	2	<b>B1</b> for 8 <i>b</i> or – 32 <i>a</i>
	Final answer		or <b>M1</b> for $10b - 30a$ or $-2a - 2b$
11	Correct sketch	2	M1 for curve through two of $(-1, 1)$ , $(0, 0)$ , $(3, 2)$ or SCI for correct sketch of $f(x + 2)$ or $f(x) + 2$
12 (a)	300	1	
(b)	13	3	<b>M2</b> for $\sqrt{5^2 + 12^2}$ or better, e.g. $\sqrt{169}$
			or <b>M1</b> for $[AC^2] = 5^2 + 12^2$ or 90° seen at B