UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

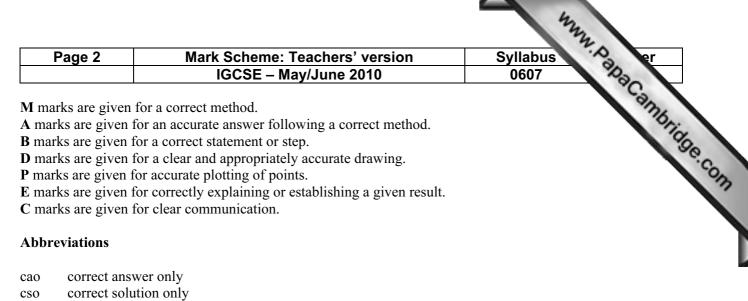
0607/05 Paper 5 (Core), maximum raw mark 24

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 must be read in conjunction with the question papers and the report on the examination.

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CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



- ft follow through
- oe or equivalent
- soi seen or implied
- ww without working
- www without wrong working

Page 3	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2010	0607

Page 3	Mark Scheme:	k Scheme: Teachers' version		Syllabus 7.0 er	
IGCSE – May/J			ine 2010 0607 %		
				and .	
Question	Answer	Mark	Notes	Comments	
1 (a)	3	2	B2 OR M1 for 9 × 6 or 54 seen	Syllabus 0607 Phacempting Comments	
(b)	7	2	B2 OR M1 for 44 × 13 or 572 seen		
(c)	4	2	B2 OR M1 for 4 × 7 or 28 seen	Communication mark possible for a complete method for one of these	
(d)	2	2	B2 OR M1 for 30 × 17 or 510 seen		
2		ainder	Division Remainder	r Division Remainder	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} 4^4 \div 5 & 1 \\ 4^6 \div 7 & 1 \\ 4^{10} \div 11 & 1 \\ 4^{12} \div 13 & 1 \end{array}$	
		6	B6 Deduct $\frac{1}{2}$ for each error or omission and round down	Ignore extra entries	
			If 0, SC1 for $3^{12} \div 13$ or $4^{12} \div 13$		
3 (a)	13 1	1	B1		
(b)	17 1	1	B1		
4 (a)	$\begin{array}{cccc} 7^{12} \div 13 & 1 \\ 7^{12} - 1 & 13 \end{array}$	2	B1 B1		
(b)	17	1	B1	Accept 2, 5, 41 or 193	
5	p	1	B1	Accept $(p - 1) + 1$ or $p - 1 + 1$	
6	$3^{28} - 1$ has a prime factor of 29	2	B2 B1 for a prime bigger than 25 seen	Other examples possible	
7	23	1	B1	Accept 89 or 683	
		1	C1	Communication seen in question 1	