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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper 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.

CIE will not enter into discussions or correspondence in connection with these mark schemes.

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.

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Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2010	0607
3.6 1		6
_	for a correct method.	3
A marks are given	for an accurate answer following a correct method.	Of.
B marks are given	for a correct statement or step.	a de la companya de l
D marks are given	for a clear and appropriately accurate drawing.	200
P marks are given t	for accurate plotting of points.	-OA
E marks are given	for correctly explaining or establishing a given result.	
C marks are given	for clear communication.	

Abbreviations

correct answer only cao correct solution only cso follow through ft oe or equivalent seen or implied soi without working ww

without wrong working www

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Page 3	Mark Scheme: Teachers' version	Syllabus	er
	IGCSE – May/June 2010	0607	100

Question	Answer	Mark	Notes	Comments
1 (a)	3	2	B2 OR M1 for 9 × 6 or 54 seen	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	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	inder	Division Remainder $3^4 \div 5$ 1 $3^6 \div 7$ 1 $3^{10} \div 11$ 1 $3^{12} \div 13$ 1	Division Remainder $4^4 \div 5$ 1 $4^6 \div 7$ 1 $4^{10} \div 11$ 1 $4^{12} \div 13$ 1
		6	B6 Deduct $\frac{1}{2}$ for each error or omission and round down If 0, SC1 for $3^{12} \div 13$ or $4^{12} \div 13$	Ignore extra entries
3 (a)	13 1	1	B1	
(b)	17 1	1	B1	
4 (a)	$7^{12} \div 13$ 1 1 13	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