CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

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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 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 October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0607	05

1		108 ÷ 27 [= 4]	1	
2 ((a) (i)	684, 1096, 1780, 2876	1	
	(ii)	4 www	1FT	FT their total ÷ their 5th term
((b) (i)	21.42, 38.32, 59.74, 98.06	1	
	(ii)	4 www	1FT	FT their total ÷ their 5th term
((c) (i)	Candidates own negative sequence correct	1	
	(ii)	4 www	1	
((d)	5th term = sum of first 6 terms divided by 4 OR sum of first 6 terms divided by 5th term = 4 OR 5th term multiplied by 4 = sum of first 6 terms OR the 5th term is always 4 times smaller than the sum of the first 6 terms oe	1	
3 ((a)	p+2q + 2p+3q	1,1	Accept different order
((b)	8p + 12q oe isw OR $5p + 7q$ plus their $3p + 5q$	1FT	FT their 6th term in 3(a) C opportunity
	(c)	$2p + 3q = \frac{8p + 12q}{4}$ OR $4(2p + 3q) = 8p + 12q$		
		$OR \frac{8p+12q}{2p+3q} = 4$	1	

Page 3	Mark Scheme	Syllabus	Paper
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4 (a) (a)	71, 115, 186, 301	1	
(i	11 www	1FT	FT their sum ÷ their 7th term
(b) (5p + 8q 8p + 13q 13p + 21q 21p + 34q	2FT	FT their previous 6th term in p and q in 3(a) B1 for any two correct including after incorrect FT
(i	55p + 88q oe isw	1	C opportunity
(ii	$5p + 8q = \frac{55p + 88q}{11}$		
	OR $11(5p + 8q) = 55p + 88q$		
	OR $\frac{55p + 88q}{5p + 8q} = 11$	1	
5 (a)	34p + 55q, 55p + 89q, 89p + 144q, 144p + 233q	2FT	FT their previous 9 th and 10 th terms in p and q in 4(b)(i) B1 for any two correct including after incorrect FT
(b)	377p + 609q oe isw	1	C opportunity
(c)	29 soi	1	C opportunity
(d)	$13p + 21q = (377p + 609q) \div 29$ OR $(377p + 609q) \div (13p + 21q) = 29$ OR $29(13p + 21q) = 377p + 609q$ oe	1	
	Communication seen in one of 3(b) 4(b)(ii) 5(b) 5(c)	1	
	Total	24	