CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2013 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/05

Paper 5 (Core), maximum raw mark 24

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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			Paper	
	IGCSE – October/November 2013	060	1	05	
1	108 ÷ 27 [= 4]	1			
2 (a) (i)	684, 1096, 1780, 2876	1			
(ii)	4 www	1FT	<b>FT</b> <i>their</i> total ÷ <i>their</i> 5th term		
(b) (i)	21.42, 38.32, 59.74, 98.06	1			
(ii)	4 www	1FT	<b>FT</b> <i>their</i> total ÷ <i>their</i> 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 + $2p+3q$ $3p+5q$	1,1	Accept diffe order	erent	
(b)	8p + 12q oe isw OR $5p + 7q$ plus <i>their</i> $3p + 5q$	1FT	<b>FT</b> <i>their</i> 6th in 3(a) <b>C</b> opportuni		
(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	Sylla	bus	Paper	
	IGCSE – October/November 2013	0607		05	
4 (a) (i)	71, 115, 186, 301	1			
(ii)	11 www	1FT	<b>FT</b> <i>their</i> sum ÷ <i>their</i> 7th term		
(b) (i)	5p + 8q	2FT		ir previous	
	8p + 13q		6th term in $p$ and		
	13p + 21q 21n + 24n		in 3(a)		
	21p + 34q			any two including	
				correct FT	
(ii)	55p + 88q oe isw	1	C oppo	rtunity	
(iii)	$5p + 8q = \frac{55p + 88q}{11}$				
(Ш)	$3p + 8q = \frac{11}{11}$				
	OR $11(5p + 8q) = 55p + 88q$				
	55p + 88q				
	OR $\frac{55p + 88q}{5p + 8q} = 11$	1			
5 (a)	34p + 55q,		FT the	ir previous	
	55p + 89q,			10 <sup>th</sup> terms	
	89p + 144q, 144q + 222q	2FT	in p and 4(h)(i)	dq in	
	144p + 233q	211	4(b)(i) <b>B1</b> for	any two	
				including	
				correct FT	
<b>(b)</b>	377p + 609q oe isw	1	C oppo	rtunity	
(c)	29 soi	1	C oppo	rtunity	
(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			