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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 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 October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

		www.
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	erm sition		12	13	14	15				Marie
Fil	bonacci mber		144	233	377	610		2	1	
<u> </u>							J	C1	1ft C1 for showing working	ft for 610 – 233 + 'their 377'
(a)										
	Term position	Į.	3	6	9	12			1 for both in row 1	
	Fibonac number		2	8	34	144		2	1 for both in row 2	
(b)	(i)									
	Ter	rm sition	4	8	12	1	6		1	
		onacc nber	i 3	21	144	98	7		2ft for all 3 in row 2 -1 eeoo	ft from Q1 for 987 – 'their 377' + 'their
	3 is Even	the 4 th ry 4 th to	term erm					5	1 000	610'
	(ii)									
	Ter	rm sition	5	10	15	20)		2 for all 3 in row 1	
		onacc nber	i 5	55	610	676	55		-1eeoo 1ft	ft from Q1 for 'their 610'
	5 is the 5 th term Every 5 th term in the is a multiple of 5								1	
	5 is Ever	the 5 th ry 5 th to	term erm in	the is	a mult	iple of	5	5	1 for both entries	

		Mary Mary
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								l .	- V
or or	by 8 rect the 5 by 5 the 3 by 3 the 2 by 2 and two 1	square square		divide	d into:		2	If not all correct 1 for any 2 squares shown excluding the two 1 by 1 squares	Cambi
or or or	by 13 receive 8 by 8 are 5 by 5 are 3 by 3 are 2 by 2 and two 1 by 1	square square square square by 1 sq	uares	, divid	ed into	8 by 13	2	If not all correct 1 for any 2 squares shown	
Least number of squares		2	3	4	5	6	1	1 for all 4 entries	
(ii	8						1		
(ii	i) 89	144					2	1 each	
(d) n	- 1						1		
								[Total: 24 +	C1 = 25 scaled to 24