MARK SCHEME for the May/June 2013 series

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



Page 2				Mar IGCSE –	k Schem May/ Jun/		Syllabus 0607	Paper 05		
				1903E -	May/June	2013		0007	05	
1 (a)		angle	length (x)	width (y)	squares passed through (S)					
	Example A B		5	3	7					
			3	1	3					
			3	2	4					
	С		5	4	8		x and y ca	x and y can be swapped in any or all rows.		
	D		7	2	8					
		Ε	7	3	9					
		F	6	5	10					
		G	7	4	10					
		<u>Ч</u>	9	4	12	8	-1 per err	or or omission		
		Ι	8 5 12							
(b)	x + y = S + 1 o.e.				1	Equation required				
(c)	[x=] 6 [y=] 1									
	5 4		2 3			B2FT	B1 for 2 correct			
								ication mark for <i>neir</i> 7 OR 3 correct	substitutions in	
							Accept <i>x</i> and <i>y</i> reversed Correct answers OR follow-through <i>their</i> (b)			
2				Calculation]	B1	4 commo	n factors 2, 2, 5, 13	;	
	<i>x</i>	У		to find S		B1	3 or 4 bas	ic rectangles		
	10	6 2	2 5 by 3	2 × 7 = 14		B2 FT	3 or 4 <i>the</i>	<i>ir</i> factor \times value for	r calculation	
	6	2 2	2 3 by 1	$2\times 3 = 6$			OR B1 FT 1 (or 2 <i>their</i> factor \times	value for calculation	
	8	6 2	2 4 by 3	2 × 6 = 12			Strict FT	except decimal and	swers.	
	25	15 5	5 5 by 3	5 × 7 = 35			SC0 in th each time	is part for the same	e basic rectangle	
	13	13 1	3 1 by 1	$13 \times 1 = 13$		B1FT	All 4 mul	tiplications		
								is part for 6, 12, 35 n and no error in ta		

Page 3		Mark Scheme	Syllabus	Paper			
		IGCSE – May/June	IGCSE – May/June 2013			05	
3			B2	1 by 18, 2 by 9, 3 by 6 OR B1 for any two soi (e.g. 3 + 6 1, etc.) Accept diagrams in the working space.			
	[minimun	n =] 6	B1	6 cao			
	[maximur	n =] 18	B1	18 cao			
				Accept 6 or 18 in wrong answer space.			
				method to e.g. comm $3 \times (2 + 1)$	non factor = 3 soi an	-	
4	$\begin{bmatrix} 3 \times 2 \\ 4 \times 1 \\ 4 \times 2 \\ 4 \times 4 \end{bmatrix}$		B1 B1 B1	4 + 1 - 1 Deduct 1	grams in the answe = 4 insufficient for each extra incor		
				Communi numerical e.g. $x + y$ x + 3 + y	peated rectangles. cation mark for sho method or stateme y - 1 = S, $S = 4y = 52 - 1 = 4$ but not $3 - 1the table.$	nt once	
	Commun	ication	1	Seen in qu	uestion 1(c), 3 or 4		