

## WANN, PapaCambridge.com MARK SCHEME for the May/June 2011 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.

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Question	Answer					Mark	Notes	Comn. Bri
1		Π						Community
	Figure	р	i	A	p + 2i - 2			
	Q	4	0	1	2			
	R	10	2	6	12			
	S	14	4	10	20			
	Т	8	2	5	10			
	U	8	5	8	16			
	V	16	5	12	24			
	W	18	2	10	20			
	X	8	1	4	8			
	Y	9	1	$4\frac{1}{2}$	9	10	B10	Deduct one for each
								wrong or omitted entry
								up to the maximum
								of 10
2	p + 2i - 2 = 2A oe					1	B1	Condone bad form
3	p = 18 i =						A1 soi	23 SC1 (if C1 not
	$18 + 2 \times 1$ $A = 23$	15-2(	= 46)				M1ft substitution into $p + 2i - 2$	given)
	11 25						A1 cao	
						4	C1 Evidence of	e.g. counting squares
						т	using areas	must be for the
								pentagon
4	$7 + 2 \times 4 -$	-2 s.o	.i.				M1	13 implies M1
	$A = 6\frac{1}{2}$						A1 OR	Communication for
						2	B2	three terms seen

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		±		· · ·		S.
5 (a) (b)	One fr p = 10 p = 8 p = 4	i = 0 $i = 1$ $i = 3$	1	B1 isw	V	Communication 1 evidence of using (maybe correctly) p + 2i - 2 = 8 or $p+ 2i = 10Other quadrilaterals$
		• • • • • • • • • • • • • • • • • • •	1	B1		are possible Corresponding to their correct $p$ and $i$ If (a) wrong or omitted: accept a different quadrilateral from that in the question with $p = 6$ and $i = 2$
6	p = 2 ş	gives a line oe	1	R1		p = 3 is the smallest value to give an area Reference must be made to dots or $p$
7		6 8 10 12 14 5 4 3 2 1 0		В3		+ $\frac{1}{2}$ for each correct pair. - $\frac{1}{2}$ for each wrong pair. Round down Communication for reasoning using Pick's equation
			1	C1 for or communi mark in c 5(a) or 7	ication questions <b>4</b> ,	