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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/01

Paper 1 (Core), maximum raw mark 40

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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				Syllabus	6
			IGCSE – May/June 2010	0607	No.
•	M	marks are	given for a correct method.	•	Carry
•	A	marks are	given for an accurate answer following a correct method.		O. C.
•	В	marks are	given for a correct statement or step.		Se !
•	D	marks are	given for a clear and appropriately accurate drawing.		.C.
•	P	marks are	given for accurate plotting of points.		O'M
•	E	marks are	given for correctly explaining or establishing a given resu	ılt.	

- marks are given for a correct method.
- A marks are given for an accurate answer following a correct method.
- marks are given for a correct statement or step. В
- marks are given for a clear and appropriately accurate drawing.
- marks are given for accurate plotting of points.
- E marks are given for correctly explaining or establishing a given result.
- ft follow through
- or equivalent oe
- seen or implied soi
- without wrong working www

(b) 1 B1	[2]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	correct fraction not een [2]
3 1.2×10^6 B2 After B0, B1 for 1 12×10^5 or 12000	1.2 seen or SC1 for
order. After B0 award B	ns or M1 for correct
(c) 18 B1	[5]
5 (a) $15p^5$ B2 B1 for 15 seen or (b) $2x(x+3y)$ B2 B1 for $2x$ identified $2(x^2+3xy)$ or for $2x$ identified $2x + 3xy +$	ed as a factor or for
6 (a) Points plotted correctly P1P1	
(b) (1, 6) B1ft	[3]
7 (a) 18 B2 After B0 award Marea of any approp	
(b) $\frac{24}{2} = \frac{x}{6} \text{ oe or for scale factor } 12 \text{ soi} $ $x = 72$ A1	[4]

Page 3	Mark Scheme: Teachers' version	Syllabus	- Q er
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				S
8	(a)	0.7	B1	Accept equivalent fractions of percentages in all parts. Do not a ratios or words.
	(b) (i)	0.7, 0.2, 0.9	B2ft	B1 if 2 correct ft from their (a)
	(ii)	0.24	B2	B1 for 0.3×0.8 seen [5]
9	(a)	$3x - 3 < 6 \text{ or } x - 1 < \frac{6}{3}$	M1	For correct multiplication of brackets or dividing by 3.
		x < 3	A1	
	(b)	-4 -3 -2 -1 0 1 2 3 4	B2ft	After B0 B1 for an appropriate arrow from their 3 <i>or</i> B1 for appropriate circle. Follow through from their inequality. [4]
10	(a)	4	B1	
	(b)	{1,2}	B1	
	(c)	{ 5, 7, 9 }	B1	Correct answer or ft from their (a).
	(d)	$\frac{4}{9}$	B1ft	Accept 0.44 or 44% or better but not a ratio or word(s). [4]
11	(a)	13	B1	Ignore extra terms.
	(b)	3n - 5 oe as final answer	B2	Award B1 for 3 <i>n</i> soi.
	(c)	Their $3n - 5 = 296$	M1	Alternative Method A correct method leading to consecutive terms in the sequence and which includes either 295 or 298 earns M1. An appropriate correct conclusion indicating that 296 is not a term earns A1.
		$n = \frac{301}{3}$ which is not a whole number oe	A1	
		and indicating that 296 is not a term.		[5]