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CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2014 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

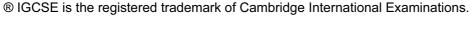
0607/23 Paper 2 (Extended), maximum raw mark 40

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 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 2014 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.





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Syllabus	Piln	Say Say
0607	23	70 0

Page 2 Mark Scheme					Syllabus	Party
	Cambridge IGCSE – Octobe			November 2014 0607 23		
1	(a)	23	1			P. Math
	(b)	4n - 1	2	B1 for 4 <i>n</i> seen		
2	(a)	-20	2	M1 for $\frac{x}{5} = 3 - 7$ or x	+ 35 = 15	
	(b)	$-\frac{3}{5}$	3	B2 for $5x + 13 = 10$ M1 for $7x + 21 - 2x \pm 1$	8	
3		$\frac{9\times60}{8+10(\text{or}12)}$	M1			
		540 18 arr 20	A1			
		18 or 20 30 or 27	A1			
4	(a)	1 125	2	B1 for 5 soi by 125 cor sight of inversion a		
	(b) (i)	x^{12}	1			
	(ii)	x^3	2	B1 for x^6 or $\frac{x^5}{x^2}$		
5			3	B1 for each of $A \cup B$ $B \cap C$ $A \cap C$		
6	(a)	<u>12</u> 5	1			
	(b)	$-\frac{12}{13}$	3	M1 for $5^2 + 12^2$ + SC1 for negative fra	action	
7	(a)	3(x+5y)(x-5y)	2	B1 for $3(x^2 - 25y^2)$ or $(x + 5y)(3x - 15y)$	r(3x+15y)(x-1)	5y)

2

M1 for $5p(3a + 2b) - 3(3a \pm 2b)$ oe

(5p-3)(3a+2b)

(b)

Page 3	Mark Scheme Cambridge IGCSE – October/November 2014			Syllabus 0607	P. Dynaths Ch
8 (a)	p = 4 $q = -6$	1 1			TOUR COM

8 (a)	p = 4 $q = -6$	1 1	
((b)	$2\sqrt{13}$	3	M1 for $\sqrt{4^2 + (-6)^2}$ A1 for $\sqrt{52}$
9		20°	2	M1 for 70 seen
10 ((a)	-7	2	B1 for $x = 4$
((b)	13-6x	2	M1 for $2(5-3x)+3$
((c)	$\frac{5-x}{3}$ oe	2	M1 for $y + 3x = 5$ or $x = 5 - 3y$ or fully correct reversed flow chart.