UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

www.mymathscloud.com MARK SCHEME for the October/November 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.

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.

		The
Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – October/November 2010	0607

S.

			20
1 (a)	18	B1	0.00
(b)	17	B2	If B0 award M1 for $5^2 = 25$ or $2^3 = 8$ seen [3] If B0 award M1 for $250 \div 5$ seen or implied
2 (a)	Samir 100 Josef 150	B2	If B0 award M1 for 250 ÷ 5 seen or implied by 50
(b)	1600	B2	If B0 award M1 for $\frac{600}{3}$ seen or implied by 200 [4]
3 (a)	$\frac{7-3}{4-2}$	M1	For using the gradient formula or sketch
	$\frac{4}{2}$ oe	A1	
(b)	(3, 5)	B1	[3]
4	100 cm^2	B2	If B0 award M1 for 60 ÷ 360 or 360 ÷ 60 seen, oe [2]
5 (a)	120	B1	
(b)	10	B2	If B0 award B1 for either 165 or 175 seen [3]
6 (a)	Correct diagram	B1	
(b)	1, 4, 9, 16	B1ft	ft on their last number
(c)	n^2 or $n \times n$ oe cao	B1	[3]
7	For rearranging equation(s) oe	M1	
	For coefficients of <i>x</i> and <i>y</i> equal if using elimination method or correct substitution	M1	Independent
	x = 3, y = -2 www 4	A1A1	[4]
8 (a)	55°	B2	If B0 award M1 for $180 - 70$ seen or implied by 110°
(b)	140° 70°	B1 B1	[4]

	no 2	Mark Sebama, Tasaha			Sullahur	aths cloud com prising
Paç	Page 3 Mark Scheme: Teach IGCSE – October/No				Syllabus	4
				U	0007	
9 (a)	3x - 3y -	-2x + 10y	B1	For corre	ectly multiplying out	th scie
	x + 7y		B1ft		ent on 4 terms	049.00
(b)	3x(x+3y)	²)	B2	Award E	31 for any other correct facto	orising
(c)	$\frac{10x - 3x}{15}$	r oe	M1			
	$\frac{7x}{15}$		A1			[6]
10 (a)	100		B1			
(b)	$\begin{vmatrix} 2 \times 25 + \\ 130 \end{vmatrix}$	4×20	M1 A1			
						[3]
11 (a)	Both poin	nts correctly plotted	P1	Toleranc	ce is 1mm for parts (a) (c) ar	nd (d)
(b)	32.5		B2		ard M1 for 260 seen or imp shown condone one error of h.	
(c)	Correct p	point	P1ft	or $\frac{\sum f}{8}$	seen	
(d)	Correct r point	uled line passing through mean	L1ft		though their mean point and ting vertical axis between 10	