CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

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

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(b) (i) — oe 1 1	U	(a)		Digger sample de	1	
$\frac{\text{(b)}}{150} = \frac{1}{150} = \frac{1}{150}$		(le)	(i)	24	1	
		(n)	(1)	$\overline{150}$ oe	1	
(ii) 480 1			(ii)	480	1	

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7	(a)	(3.2, 2.6)	3	B2 for one co-ordinate supported by algebra
	,			or M1 for $3x + 4(\frac{1}{2}x + 1) = 20$ or other correct
				elimination of x or y
	(b) (i)	P correct	1	
				× P
	(ii)	Q correct	1	×Q
				/
8	(a)	90	1	
	(b)	35	1	
	(c)	55	2	B1 for $ABC = 90 + 35$ or $ADC = 55$
9		P P	3	B1 for each criterion correct
10	(a)	(x-5)(x+2)	2	SC1 for $(x + a)(x + b)$ where $a + b = -3$ or $ab = -10$
	(b)	$[x=] (ay)^3$ oe	2	M1 for $ay = \sqrt[3]{x}$ or $y^3 = \frac{x}{a^3}$
11	(a)	-2	1	
	(b) (i)	12	1	
	(ii)	16	1	
12		2, 2, -12	3	M2 for $a(x+3)(x-2)$
				or M1 for $(x + 3)(x - 2)$
				If 0 scored, B1 for $c = -12$
		1	l	<u>i</u>