Mark Scheme (Results)

November 2009

GCSE Mathematics (Modular) - 2381
Paper: 5383F/09

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Question		Working	Answer	Mark	Notes
1	(a)		18	2	B2 for 18 (B1 for 6 or 12)
	(b)	$8.5 \times 4 \times 2.5$	85	2	M1 for $8.5 \times 4 \times 2.5$ A1 for 85
2		$26 + 15 - 21$	20	2	M1 for 26 + 15 - 21 **or** 41 −21 **or** 5 + 15 **or** 26 −6 A1 for 20
3	(a)		1.5	1	B1 for 1.5 , $\dfrac{3}{2}$, $1\dfrac{1}{2}$
	(b)	3.5×3.5	12.25	1	B1 for 12.25, 12¼, $\dfrac{49}{4}$
	(c)		9	1	B1 cao
	(d)	$-8 + 4$	-4	1	B1 cao
4	(a)		30	1	B1 cao
	(b)		8½	1	B1 accept 8.5, 8 and a half oe
5	(a)		3^6	1	B1 accept 3^{4+2}
	(b)		5^3	1	B1 accept $5^{\,5-2}$

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Question	Working	Answer	Mark	Notes
6 (a)	−1, (1), 3, (5), 7, 9	−1, (1), 3, (5), 7, 9	2	B2 for 4 values correct (B1 for 2 or 3 values correct)
(b)		Line drawn	2	M1 for plotting at least 5 of their points correctly **or** single straight line with positive gradient passing thro' (0,3) from x=-2 to x=3 **or** single straight line of gradient 2 from x=-2 to x=3 **or** correct straight line that passes through 3 correct points A1 cao for straight line from at least (-2,-1) to (3,9)
7		150º	2	M1 for identifying angle BAC as 60º **or** 180/3 seen **or** identifying angle CAD as 90º **or** 50 + 40 + 90 = 180 **or** 180 − 90 **or** 180 − 40 − 50 (NB. Answer of 90 alone on answer line scores M0) A1 for 150º
8		10.5	1	B1 cao
9	$x^2 + 3x + x + 3$	$x^2 + 4x + 3$	2	M1 for 4 terms correct with or without signs or 3 correct **in each case there must be a maximum of 4 terms** (the terms may be in an expression or table) **or** $x(x + 3) + 1(x + 3)$ **or** $x(x + 1) + 3(x + 1)$ A1 cao
10		0.42051(28205)	2	M1 for 8.2 oe **or** 19.5 oe **or** $\dfrac{82}{195}$ A1 for 0.42051(28205)