

Mark Scheme (Results)

March 2010

GCSE

GCSE Mathematics (Modular) - 2381

Paper: 5383F/09

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Question	Working	Answer	Mark	Notes
1		14	2	B2 for 14 cao (B1 for 7 or 11 or 13)
2		70	1	B1 for 70 cao
3		11	2	M1 for $400 \div 34$ or $4 \div 0.34$ or $11.7(\dots)$ seen or for addition method leading to a total within 34p of £4 A1 cao
4	(a)	Radius drawn	2	B1 for radius drawn (do not accept diameter). Ignore extras if correct
	(b)	Sector drawn		B1 for sector drawn (accept semicircle)
5	(a)	2.3	1	B1 for 2.3 cao
	(b)	729	1	B1 for 729 cao
	(c)	64	1	B1 for 64 cao

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Question	Working	Answer	Mark	Notes
6	$15.70 - 2.20 = 13.50$ $13.50 \div 1.50 = 9$	9	3	M1 for $15.70 - 2.20$ or $13.5(0)$ seen M1 (dep) for " 13.50 " $\div 1.50$ A1 cao OR M1 for an addition method involving 2.20 and 1.50s M1 (dep) for an addition method leading to a total within $\pounds 1.50$ of $\pounds 15.70$ A1 cao SC: If M0 then B1 for $15.70 \div 1.50$ or $15.70 \div 3.70$
7				
(a)		$3f$	1	B1 for $3f$ (accept $f3$ or $3 \times f$ or $f \times 3$)
(b)		$2cd$	1	B1 for $2cd$ (accept $2dc$, $cd2$, $dc2$ oe)
(c)		$5x + 10$	1	B1 cao

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Question	Working	Answer	Mark	Notes														
8		7.29518(.....)	2	M1 for 12.11 seen or 1.66 seen or $\frac{1211}{166}$ seen or 7.2 or 7.3 or better, rounded or truncated A1 for 7.29518 or better														
9 (i)		30	2	B1 for 30 cao														
(ii)		alternate angles		B1 for alternate angles (or Z angles), dep on 30 in (i) or co-interior angles, dep on 30 or 180 - 150 in (i) or allied angles, dep on 30 or 180 - 150 in (i) or corresponding angles (or F angles) and angles on a straight line (= 180), dep on 30 or 180 - 150 in (i) or corresponding angles (or F angles) and (vertically) opposite angles, dep on 30 in (i) or any other fully correct reason														
10	<table border="1"> <tr> <td>x</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>y</td> <td>-3</td> <td>-1</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> </tr> </table>	x	-2	-1	0	1	2	3	y	-3	-1	1	3	5	7	Correct line	3	M2 for two correct points plotted or a correct straight line which does not cover the range $x = -2$ to $x = 3$ (M1 for one point correctly plotted or calculated or for a straight line through one correct point or for a straight line with gradient 2) A1 cao for correct line between $x = -2$ and $x = 3$
x	-2	-1	0	1	2	3												
y	-3	-1	1	3	5	7												
11	$\frac{1}{2} \times 3 \times 4 \times 7$	42	2	M1 for $\frac{1}{2} \times 3 \times 4 \times 7$ or for 7 as part of a triple product A1 cao														

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