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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 ÷ 34 or 4 ÷ 0.34 or 11.7(...) 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 ÷ 1.50 = 9	9	3	M1 for 15.70 – 2.20 or 13.5(0) seen M1 (dep) for "13.50" ÷ 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 £1.50 of £15.70 A1 cao SC: If M0 then B1 for 15.70 ÷ 1.50 or 15.70 ÷ 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	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 $x = 3$
11	$\frac{1}{2}$ x 3 x 4 x 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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