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Edexcel GCSE

Mathematics 2381

Paper 5383F/09

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Mark Scheme

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5383F/09				
Question	**Working**	**Answer**	**Mark**	**Notes**
1 (a)		4	1	B1 accept 4.0(0)
(b)		16	1	B1
2	100 – (23 + 32 + 10) = 100 – 65	35	2	M1 for 100 – (23 + 32 + 10) o.e. A1 cao watch for answer only in table
3		$5x$	1	B1 Accept $x5$ or $5 \times x$ or $x \times 5$ or $5.x$
4	6×2	12	2	M1 for 6×2 or answer of 11 or 13 or 6 seen A1 cao
5		explanation	1	B1 for explanation with Bidmas e.g. Brackets needed (15 – 3) or Answer should be 9 Note:- brackets needed is insufficient
6 (a)		draw radius	1	B1 (do not accept diameter) Ignore extras if correct
(b)		draw chord	1	B1 (accept diameter) Ignore extras if correct
7	180 – 152	28	2	M1 for 180 – 152 or $x = [360 – 2(152)] \div 2$ or $56 \div 2$ seen A1 cao
8	$= \sqrt{336.63}$	18.347….	2	B2 for 18.347(47939) or $\frac{7\sqrt{687}}{10}$ (B1 for 18.3… or 336.63 seen)
9 (a)		–4, (1), 6, 11, (16)	2	B2 (B1 for 1 correct entry)
(b)		Straight line	2	M1 for plotting at least 4 of 'their points' correctly A1 for correct straight line for $-1 \leq x \leq 3$ S.C. B1 for line of gradient 5 or y-intercept 1 on y axis if M0 above
10 (a)		$6c – 4$	1	B1 oe
(b)		$x(y + 3)$	1	B1 for $x(y + 3)$ oe or $(x + 0)(y + 3)$ oe

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Question	**Working**	**Answer**	**Mark**	**Notes**
11	146 – 13.20 = 132.80 132.80 ÷ 8.30	16	3	M1 for first step in a valid method eg 146 – 13.20 or sight of 132.8(0) M1 for "132.80" ÷ 8.3 A1 cao **Alternative 1 (repeated addition)** M1 for repeated addition of 8.30 (at least twice) M1 for 13.20 + repeated addition of 8.30 (at least 15 times) A1 cao **Alternative 2 (repeated subtraction)** M1 for repeated subtraction of 8.30 (at least twice) M1 for repeated subtraction of 8.30 (at least 15 times with answers shown)
12 (i) (ii)		127 Alternate angles	2	B1 for 127 B1 for alternate angles (accept Z angles) or allied angles (co-interior angles) (= 180) or corresponding angles (accept F angles) **and** (vertically) opposite angles or corresponding angles (accept F angles) **and** angles on a straight line (= 180º) or allied angles (co-interior angles) **and** angles on a straight line (= 180º)