

Edexcel GCSE

Mathematics 2381

Paper 5383F/09

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Mark Scheme

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
(b)		Straight line	2	(B1 for 1 correct entry) 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	$146 - 13.20 = 132.80$ $132.80 \div 8.30$	16	3	M1 for first step in a valid method eg $146 - 13.20$ or sight of $132.8(0)$ M1 for " $132.80 \div 8.3$ " 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 (= 180°) or allied angles (co-interior angles) and angles on a straight line (= 180°)