

Mark Scheme (Results) Summer 2010

GCSE

GCSE Mathematics (Modular) - 2381 Paper: 5381H/6A Edexcel is one of the leading examining and awarding bodies in the UK and throughout the world. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers.

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5381H/6A								
Question	Working	Answer	Mark	Notes				
1 (a)		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	 B3 for fully correct diagram with key (B2 for ordered leaves, with at most two errors or omissions and a valid stem and key OR correct unordered leaves and a key OR correct ordered leaves and a valid stem) (B1 for unordered or ordered leaves, with one or two errors or omissions OR key) 				
(b)		36	1	B1 cao				
2	$(8 \times 1 + 11 \times 2 + 9 \times 3 + 7 \times 4 + 5 \times 5) \div 40$ = 8 + 22 + 27 + 28 + 25 = 110 \dot 40	2.75	3	 M1 for 8×1 or 11×2 or 9×3 or 7×4 or 5×5 oe or 22, 27, 28, 25 seen or 110 seen M1 dep for '(8×1+11×2+9×3+7×4+5×5)'÷40 A1 for 2.75 or 2³/₄ 				

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Question	Working	Answer	Mark	Notes			
3	A B Lowest 3 3 LQ 5 8 Median 6.5 11 UQ 11 14 Highest 16 19.5 Range 13 16.5 IQR 6 6	two comparisons	2	 B1 for comparison of spread e.g. range of depths in region B greater than range of depths in region A e.g. interquartile ranges are equal B1 for comparison of a specific value or a different comparison of spread e.g. deepest crater in region B is deeper than the deepest crater in region A e.g. median B greater than median A 			
4	$(35+41+53) \div 3 = 129 \div 3$ $(41+53+29) \div 3 = 123 \div 3$	43, 41	2	 M1 for (35+41+53)÷3 or (41+53+29)÷3 oe (may be implied by one correct answer) A1 for both 43 and 41 S.C. Award B1 for 41, 43 			
5 (a)		20, 35	1	B1 for both 20 and 35			
(b)		complete histogram	1	B1 for a bar of correct width with height 5cm and a bar of correct width with height 3.5cm (tolerance ± 1 sq)			

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Question	Working	Answer	Mark	Notes			
6	$\frac{56}{290} \times 50$	10	2	M1 for $\frac{56}{290} \times 50$ oe or 9.6 or 9.7 seen A1 for 9 or 10			

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