

# 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.

Through a network of UK and overseas offices, Edexcel's centres receive the support they need to help them deliver their education and training programmes to learners.

For further information, please call our GCE line on 0844 576 0025, our GCSE team on 0844 576 0027, or visit our website at [www.edexcel.com](http://www.edexcel.com)

Summer 2010

Publications Code UG024438

All the material in this publication is copyright

© Edexcel Ltd 2010

5381H/6A												
Question	Working	Answer	Mark	Notes								
1 (a)		<table><tr><td>1</td><td>1 3 8 9</td></tr><tr><td>2</td><td>2 3 5 6 8</td></tr><tr><td>3</td><td>1 6 6 6</td></tr><tr><td>4</td><td>0 1</td></tr></table>  Key: 1   2 = 12	1	1 3 8 9	2	2 3 5 6 8	3	1 6 6 6	4	0 1	3	B3 for fully correct diagram with key  (B2 for ordered leaves, with at most two errors or omissions <b>and</b> a valid stem and key OR correct unordered leaves <b>and</b> 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)
1	1 3 8 9											
2	2 3 5 6 8											
3	1 6 6 6											
4	0 1											
(b)		36	1	B1 cao								
2	$(8 \times 1 + 11 \times 2 + 9 \times 3 + 7 \times 4 + 5 \times 5) \div 40$  $= 8 + 22 + 27 + 28 + 25$  $= 110 \div 40$	2.75	3	M1 for $8 \times 1$ or $11 \times 2$ or $9 \times 3$ or $7 \times 4$ or $5 \times 5$ oe or 22, 27, 28, 25 seen or 110 seen  M1 dep for $'(8 \times 1 + 11 \times 2 + 9 \times 3 + 7 \times 4 + 5 \times 5)' \div 40$  A1 for 2.75 or $2\frac{3}{4}$								

5381H/6A						
Question	Working			Answer	Mark	Notes
3		A	B	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
	Lowest	3	3			
	LQ	5	8			
	Median	6.5	11			
	UQ	11	14			
	Highest	16	19.5			
	Range	13	16.5			
	IQR	6	6			
4	$(35 + 41 + 53) \div 3 = 129 \div 3$ $(41 + 53 + 29) \div 3 = 123 \div 3$			43, 41	2	M1 for $(35 + 41 + 53) \div 3$ or $(41 + 53 + 29) \div 3$ 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 $\pm 1$ sq)

5381H/6A				
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



Further copies of this publication are available from  
International Regional Offices at [www.edexcel.com/international](http://www.edexcel.com/international)

For more information on Edexcel qualifications, please visit [www.edexcel.com](http://www.edexcel.com)  
Alternatively, you can contact Customer Services at [www.edexcel.com/ask](http://www.edexcel.com/ask) or on + 44 1204 770 696

Edexcel Limited. Registered in England and Wales no.4496750  
Registered Office: One90 High Holborn, London, WC1V 7BH