

GCSE MATHEMATICS  
MARK SCHEME – Specimen Paper – Handling Data (Unit 1) Higher

Questions	Working	Answer	Mark	Notes
<b>A1</b>	$(1 \times 5) + (2 \times 9) + (3 \times 14) + (4 \times 11) + (5 \times 5) + (6 \times 6)$ $5 + 18 + 42 + 44 + 25 + 36 = 170$ $170 \div 50 = 3.4$	3.4	<b>3</b>	M1 for $1 \times 5, 2 \times 9$ etc (min 3 attempts shown) M1 (dep) for an attempt to add A1 cao
<b>A2</b> (a) (b)		Reason Question Response	<b>1</b> <b>2</b>	B1 Pass at $0.6 > \text{Fail at } 0.4$ B1 Improved question B1 Response boxes
<b>A3</b> (a)  (b)  (c)	182, 178, 180, 184	182,178 180,184  28 31 11 cm 1.5 cm	<b>2</b>   <b>2</b>  <b>2</b>	M1 for one mean eg $(147 + 161 + 238) \div 3$ or sight of one 3-point average A1 cao B1 cao B1 cao B1 for 4 <sup>th</sup> column 11 cm high B1 for 5 <sup>th</sup> column 1.5 cm high
<b>A4</b>	$\frac{8}{25} \times \frac{7}{24}$	$\frac{7}{75}$	<b>3</b>	M1 for $\frac{8}{25} \times$ A1 for $\frac{7}{24}$ A1 $\frac{7}{75}$ oe (eg 0.093)

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<b>B1</b> (a) (b)		£5000 3	<b>1</b> <b>2</b> <b>2</b>	B1 for three points plotted correctly B2 ± 200 B2 ± 0.2 (B1 for a correct line of best fit)
<b>B2</b> (i)    (ii)	0   6 8 8 9 1   2 2 4 5 5 6 6 8 8 2   1 1 1 2 5 3   2 4	Diagram    16	<b>2</b>    <b>2</b>	B2 for fully correct (B1 for 2 errors in leaves or omitted key or unordered)  B1 for putting in order A1 cao
<b>B3</b> (a)   (b)		Boxplot	<b>2</b>   <b>2</b>	B2 if fully correct (B1 for median or range end points or interquartile range correct) B1 for comment comparing median B1 for comment comparing IQR
<b>B4</b>	Y9 boys in sample: $\frac{76}{800} \times 50$	5	<b>2</b>	M1 for $\frac{76}{800} \times 50$ or 4.75 seen A1 for 5