

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

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

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