A level Statistics Paper 1 MARK SCHEME

Question 1

Question Number	Scheme	Marks
(a)	$70 - 80$ group – width 0.5 (cm)	B1
	1.5 cm^2 is 10 customers $\underline{or}$ 3.75cm^2 is 25 customers $\underline{or}$ $0.5c = 3.75$ $\underline{or}$ $\frac{2.5}{1}$	M1
	$70 - 80$ group - height 7.5 (cm)	A1
		(3)
(b)	Median $= (70) + \dfrac{13.5}{25} \times 10$ allow $(n + 1) = (70) + \dfrac{14}{25} \times 10$	M1
	$= 75.4$ (or if using $(n + 1)$ allow 75.6)	A1
		(2)
(c)	$\left[\text{Mean} = \dfrac{6460}{85} \right] = 76$	B1
	$\sigma = \sqrt{\dfrac{529400}{85} - 76^2}$	M1
	$= 21.2658\ldots\ldots$ $(s = 21.3920)$ awrt 21.3	A1
		(3)
	Notes	
(a)	B1 for 0.5	
	M1 for one of the given statements $\underline{or}$ any method where "their width" $\times$ "their height" $= 3.75$	
	Correct height scores M1A1 independent of width so B0M1A1 is possible.	
(b)	M1 for a correct fraction: $+\dfrac{k}{25} \times 10$ where $k = 13.5$ or 14 for $(n + 1)$ case.	
	NB may work down so look out for $(80) - \dfrac{11.5}{25} \times 10$ etc Beware: $60.5 + \dfrac{13.5}{25} \times 11 = 75.44$ (but M0)	
(c)	M1 for a correct expression with square root, ft their mean	
	A1 for awrt 21.3 or, if clearly using s allow awrt 21.4. Must be evaluated….no surds.	

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Sabine Zange

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