Qu	Scheme	Marks	AO
2. (a)	From [5,20) $fd = 3$ or 1 large square = 2.5 passengers o.e.	M1	2.2a
	Correct bar above [0, 5)	A1	1.1b
	Correct bar above [20, 40)	A1	1.1b
		(3)	
(b)	For [40, 65) <u>130</u> passengers <u>or</u> for [65, 80) <u>60</u> passengers	M1	2.1
	For attempt to find total number of passengers = 331	Alft	1.1b
	[Median =] $40 + \frac{\frac{1}{2}("331") - 140}{"130"} \times 25 \text{ or } 65 - \frac{270 - \frac{1}{2}("331")}{"130"} \times 25 \text{ (o.e.)}$	M1	1.1b
	= 44.9038 = awrt 44.9	A1	1.1b
		(4)	
(c)	Upper outlier limit = $58.9 + 1.5 \times (58.9 - 27.3) = 106 (.3) > 90$	M1	2.4
	So oldest passenger is <u>not</u> an outlier	A1 (2)	2.2a
		(2) (9 marks)	
	Notes		
(a)	M1 for attempt at fd or a suitable method to deduce the scale for the histogram		
	May be implied by one correct bar.		
	$A^{st} = A^{1}$ for first bar [0, 5) with fd = 1 or 2 large squares high $A^{nd} = A^{1}$ for third bar with fd = 4.5 or 9 large squares high		
	2 million unite our with le million of a funge sequences high		
(b)	1 st M1 for an attempt using their fd to find the missing frequencies. May be in table		
	1^{st} A1ft for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} of 1^{st} for a clear attempt to find the total number of passengers (ft their 2^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to find the total number of passengers (ft the form 1^{st} for a clear attempt to		
	2^{nd} M1for any expression/equation leading to correct Q_2 Must be using 40-65 class 2^{nd} A1for awrt 44.9 (allow $(n + 1)$ leading to 45)		
(c)	M1 for finding the upper outlier limit (expression or awrt 106) and stating or implying > 90 A1 dep on M1 seen for deducing NOT an outlier		