

Question	Scheme	Marks	AOs
1(a)	Upper limit $6+1.5\times 2=9$	M1	1.1b
	Therefore any 10s would be outliers	A1	2.4
		(2)	
(b)	Total frequency = $20 + 40 + 95 - n + n + 25 + 15 (=195)$	M1	3.1a
	Median = $\frac{('195'+1)}{2}$ th value (98 th)	M1	1.1b
	Maximum frequency of 5 is 38 so $n = 95 - 38$		
	= 57	A1	1.1b
		(3)	
(c)	$\frac{15}{'195'} = \frac{1}{13}$ oe	B1ft	1.1b
		(1)	
(6 marks)			
Notes:			
(a) M1: Attempt at upper (or lower) limit (lower limit $4 - 1.5\times 2 = 1$) A1: correct limit and conclusion that outliers are possible			
(b) M1: attempt to find total frequency (implied by sight of 195) M1: Using their total frequency to find position of median (condone $\frac{'195'}{2}$) A1: 57 cao			
(c) B1: ft their total frequency, (awrt 0.0769)			