

Question			Answer	Marks	AO	Guidance
18	(a)		260 cao	B1	1.1	
				[1]		
18	(b)		31 cao	B1	1.1	mark the final answer
				[1]		
18	(c)		any 2 distinct reasons eg (approximately) symmetrical (about the mean)	B1	3.5a	ignore extra comments unless they contradict an otherwise correct answer
			eg approximately bell-shaped / unimodal	B1	3.5a	
			eg data is continuous			
				[2]		
18	(d)		[variance is] awrt 62.2 or [sd is] 7.89 seen BC	M1	3.3	NB 62.15567...may be implied by sd = 7.88 or 7.89 NB 0.263047...from $\sqrt{62.2}$ or 0.263133... from 7.89 NB 0.262871... from 7.88, 0.262973...from unrounded sd
			0.26287 – 0.263134 or 0.26	A1	3.4	allow B2 for correct answer unsupported
				[2]		
18	(e)		B(28, p) used, where p is value calculated in (d)	M1	3.1a	may be given to 2 sf; allow B2 for correct answer unsupported
			$0.888 \leq p < 0.896$	A1	1.1	
				[2]		

Question			Answer	Marks	AO	Guidance
18	(f)		$7.8 + 0.18 \times 260$	M1	3.1a	
			$0.18^2 \times 62.2$ oe	M1	3.5c	or $0.18 \times \sqrt{62.2}$
			N(54.6, 2.0138 – 2.02)	A1	1.1	allow eg 1.42^2 for variance
				[3]		