

Question	Scheme	Marks	AOs
3(a)(i)	(Order the data by date and) use simple random sampling to select the first piece of data	B1	1.2
	$\frac{184}{30} = 6.13...$ Select the first data point then every 6th piece of data until 30 pieces of data have been collected	B1	2.2a
		(2)	
(a)(ii)	Using the same dates as for Leeming	B1	2.4
		(1)	
(b)	Camborne is nearer to the coast than Leeming and The mean cloud cover in Camborne is greater than that of Leeming	M1	2.4
	... this does not support Joe's belief	A1	2.2b
		(2)	
(c)	(Discrete) uniform distribution	B1	3.3
	Assuming that each <u>okta</u> of cloud cover is equally likely	B1	3.5b
		(2)	

(7 marks)

Notes:		
(a)(i)	B1:	Describing using a random method to find the first piece of data/starting point. Condone no mention of ordering.
	B1:	Describing taking every 6 th piece of data until 30 pieces of data are collected (allow use of a total number of days in the range 178-186 inclusive)
(a)(ii)	B1:	For noting that the same dates selected for Leeming should be used
(b)	M1:	Indicating that Camborne is nearer to the coast than Leeming, as well as mentioning that Camborne's mean is greater
	A1:	Correct reasoning and a statement that this does not support Joe's belief
(c)	B1:	Uniform distribution or discrete uniform distribution B0 for continuous uniform distribution
	B1:	Indicating that all outcomes are equally likely – must use context by mentioning 'oktas'
Allow the following as an alternative for (c)		
(c) ALT	B1:	Allow B(8, <i>p</i>)
	B1:	e.g. assuming cloud cover for each okta is independent