

Qu 3	Scheme	Marks	AO
(a)	Rain[fall] (allow [Mean] Windspeed)	B1	1.2
(b)	$[\bar{x} =] 15.2239... = \text{awrt } \underline{15.2}$ $\sigma_x = \sqrt{\frac{44\,695.4}{184} - "15.22.."^2} \quad \text{or} \quad \sqrt{11.1(422...)}$ $= 3.33800... \quad \text{awrt } \underline{3.34}$	(1) B1	1.1b
		M1	1.1b
		A1	1.1b
		(3) M1	2.4
(c)	<u>Mean is higher</u> than average OR a <u>summer/spring</u> month If they say winter/autumn they must explain that these are hotter months for Perth. [Perth is southern hemisphere or Australia so latest available] month is Oct	A1cso	2.2b
		(2)	
		(6 marks)	
Notes			
Answers may appear next to the question.			
(a)	B1 for Rain[fall] or precipitation (e.g. allow Daily Total [or Mean or max] Rainfall etc) (or allow Mean Windspeed or just “windspeed” BUT not max windspeed or “gust”) If they give more than one answer we take the last one . (NB Actual windspeed mean is 8.2, sd 2.38. No other quantitative variables available)		
(b)	B1 for awrt 15.2 (Do not accept fractions or mixed numbers) M1 for a correct expression including square root (ft their mean) May be implied by an answer of 3.3 or better. A1 for awrt 3.34 [Allow $s = 3.3471... \text{ i.e. awrt } 3.35$ if correct formula/expression is seen]		
(c)	If answer in (b)(i) > 19.4 and an attempt is made in (c) please send to review.		
	M1 for a reason mentioning that mean or temperature is higher (o.e.) e.g. it is a <u>warmer/hotter</u> month is OK <u>or</u> sight of $19.4 > (\text{their}) 15.2$ Only ft their 15.2 if it is less than 19.4		
	OR suggesting a summer/spring month. Ignore incorrect statements that are irrelevant or don’t contradict For incorrect statements that contradict score M0		
	A1cso dep on M1 scored for inferring October Must choose <u>just</u> October not a range like August~October (NB actual mean for Sep is 15.6 and sd 3.19 and this scores A0) Can accept for example “high mean so December” for M1A0		
SC	M1A1 for “October since Perth is in the southern hemisphere/Australia”		
	M1A0 for “Sep <u>or</u> Nov <u>or</u> Dec <u>or</u> Jan <u>or</u> Feb and “Perth is in the southern hemisphere/Australia”		
	M0A0 just “Perth is in the southern hemisphere/Australia” <u>without</u> a month M0A0		