MCQ Weeks		T or F
1 a)	The spread of the population of sample means is measured by the standard error	
1 b)	As the sample size increases the width of a confidence interval stays about the same	
1 c)	For a sample of given the standard error can be found from the standard deviation	
2 a)	The population of sample means is always skewed	
2 b)	A 99% confidence interval is narrower than a 95% confidence interval	
2 c)	If the standard error of a sample has value x , then the standard error of a sample four times larger will be about $x/4$.	
3 a)	How well a sample mean estimates the corresponding population quantity is measured by the standard error	
3 b)	The usual definition of a confidence interval for a mean assumes that the	
3 c)	distribution of sample means is Normal A 95% confidence interval is (approximately) the sample mean ± 2×standard deviation	
4 a)	A confidence interval for the mean is sample mean $\pm x \times SE$ where x determines the confidence	
4 b)	level There is (approximately) a 95% chance that the interval from sample mean – 2 SE to	
4 c)	A confidence interval can be made as narrow as you wish by taking a sufficiently large sample	