	solution
name:	
month.	

- 1 (4 points each). Suppose that 500 reandomly selected alumni of the University of Okoboji were asked to rate the university's academic advising services on a 1 to 10 scale. The sample mean \bar{x} was found to be 8.6. Assume that the population standard deviation is known to by $\sigma = 2.2$.
 - (a) Ima Bitlost computes the 95% confidence interval for the average satisfaction score as $8.6\pm1.96(2.2)$. What is her mistake?
 - (b) After correcting her mistake in part (a), she states, "I am 95% confident that the sample mean falls between 8.4 and 8.8." What is wrong with this statement?

(a) She used the sample standard deviation 2.2 instead of the sample standard deviation 2.2/500.

(b) That confidence internal is for the population mean, not the sample mean.