

STA 110
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Fall 1995 Name: _____

Quiz 5 (Ver 1)

Cereal. The weights of full boxes of Kellogg's Nutri-Grain Cereal are normally distributed with a standard deviation $\sigma = 0.18$ ounce. If a sample of 12 randomly selected boxes produced a mean weight of 17.28 ounces, find

- (a) The 95% and 96% confidence intervals for the true weight of a box of this cereal.
- (b) Discuss the effect of different confidence levels on the width of the interval in (a).