

Math 110
Spring, 2009

Name _____
Calculator _____

Homework #11

Due Thursday, April 23

No late papers accepted! No excuses!

1. Rita Gibbons is a stand-up comedian who videotapes her performances and records the total of the times she must wait for audience laughter to subside. Given here are the times (in seconds) for a sample of 15 different shows in which she used a new routine. Construct a 99% confidence interval for the population mean time she must wait for the audience laughter to subside.

86	45	44	78	52	79	86	66
61	57	98	44	61	99	87	

2. How many TV households must Nielsen survey to estimate the percentage tuned to *The Late Show with David Letterman*? Assume that you want to be 98% confident that your estimate is within 2 percentage points.

