

Name: _____ Math 130 Day 14 Lecture Worksheet
 Date: _____ Section 9.2: Confidence Intervals for a Population Mean

Ex 1: In order to estimate the average time Rio Hondo Statistics students study for their Statistics class per week the students in Greg’s Statistics class were polled and asked “How many hours did you study for your Statistics class last week?” The data is given in the table below:

Study Times											
15	12	25	20	20	9	15	18	22		n =	
										xbar =	
										s =	

- What is the population?
- What is the sample?
- What is the population parameter (symbol and description)?
- What is your sample statistic (symbol, description, and value)?
- What is your best point estimate for the population parameter?
- Find your 95% confidence interval for the population parameter
- What does the 95% in a 95% confidence interval mean?

Ex 2: In order to estimate the average time Rio Hondo students spend at a job per week, the students in Greg's Statistics class were polled and asked "How many hours did you work at a job last week?" The data is given in the table below:

Time Spent At Work									
29.5	0	22	10	0	10	20	35		
									n = 8
									xbar = 15.8125
									s = 12.97783

- What is the population?
- What is the sample?
- What is the population parameter (symbol and description)?
- What is your sample statistic (symbol, description, and value)?
- What is your best point estimate for the population parameter?
- Find your 98% confidence interval for the population parameter
- What does the 98% in a 98% confidence interval mean?