Math 12 Elementary Statistics – Fall 2012

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**Lab Project 1 (5 lab points)**

Refer to the Class Data page for this lab. Please turn in only neat work. You may need to copy over your initial work. You do not need to include this page with your work.

Due at the first exam (may be turned in early).

- 1. (2-2) Make a *frequency distribution* for EITHER the number of minutes to get to school (Q17) OR the number of miles from home to school (Q18) of the class members. Use 4 to 7 classes, as you think best. Include any calculations to determine class width. Was there any unusual data? How did you deal with it?

- 2. (2-3) Sketch a histogram from your frequency distribution. Be sure to label it clearly. Does the data appear symmetric? Skewed left? Skewed right? None of the above? You might use EXCEL or another type of spreadsheet software to do this. See if you can get the bars to touch!

- 3. (3-2, 3-3) Find the mean and standard deviation for the **full** collection of number of miles from school or number of minutes (whichever you used in #1 and #2). Now find the mean and standard deviation for number of miles or minutes using your *frequency distribution*. How do the two values for the mean and the two values for the standard deviation compare? (Be sure to see the calculator instructions on p.100 and p.115.)