

Math 1342
Elementary Statistics
Lab Exercise # 1

Name: _____

Date: _____

Section: _____

Semester: _____

Grade: _____

Attach computer printouts to this sheet and submit your assignment to your instructor.

The U.S Bureau of Labor Statistics indicates that the following data represents the prices of whole milk (in dollars per half-gallon) for the indicated years:

1990	1991	1992	1993	1994	1995	1996
\$1.39	\$1.40	\$1.39	\$1.43	\$1.44	\$1.48	\$1.65

- 1a. Use the TI-83, to construct a scatter plot of the data. Use List 1, [L1] for your x -values and List 2, [L2] for your y -values. Using the window key, enter these values:

$$x \text{ min} = 1989$$

$$x \text{ max} = 1997$$

$$x \text{ scl} = 1$$

$$y \text{ min} = 0$$

$$y \text{ max} = 1.7$$

$$y \text{ scl} = 0.25$$

Use Stat Plot 1 and use the square markers.

- 1b. Use the TI-83 and Stat Plot 1 with the line graph feature to construct a time plot of the given data. The window and list information should remain the same.

- 1c. Use a black pen to label the axes on the printouts of 1a. and 1b.

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*****If in doubt, Print it out!*****

- 1a.) To enter data into lists you must go to [STAT], 1: Edit..., and enter the values as stated with the years being your x -values and the dollar amounts being your y -values. To make the scatter plot, press [2^{nd}], [Y=] (STAT PLOT), 1: Plot1. To turn it on move the blinking box over On and press [ENTER]. This also works if you want to turn it off, just highlight the Off. Use this same technique to select the type of graph you want. Make sure your x -values are L1 and your y -values are L2. Also select the type of marker that was stated in the instructions. To set up your viewing window, press [WINDOW] and enter the information given (leave the $xres$ alone). When this is completed, press [GRAPH] and your graph should appear. Print.
- 1b.) To graph the given data as a line graph, all you need to do is return to STAT PLOT and change the graph type to a line graph. See the instructions above for the right buttons if needed. Print.
- 1c.) Refer to textbook, if needed.