

Day 10 – Calculators are for calculations aren't they?

GOB Follow the instructions below to set up your calculator to make correct calculations. Then follow the instructions regarding how to generate summary statistics. Use your calculator to answer the questions A-D below the instructions. You should have them finished by the time I finish checking the homework.

TI 83/84: Set calculator to avoid rounding during computations until the final answer is given. Press **MODE**, highlight **Float**, **ENTER** (that's it) Now on to calculations.

This assumes you put the data in L1.

Press **STAT**, arrow to **CALC**, select **1:1-Var Stats**, **ENTER** or **1**

Now you need to tell the calculator which list to use **2nd**, **1**. You should see: 1-Var Stats L1 on the screen. Press **ENTER**. That's it. S_x is the standard deviation. Scroll down for the 5-number summary! If given data (L1) and their frequency (L2) just do 1-Var Stats L1, L2 (See page 65 of your book for more details.)

TI 89: This assumes you put the data in L1.

Press **F4** (Calc), select **1:1-Var Stats** (already highlighted), **ENTER**. Now you need to tell the calculator which list to use, **2nd** – ([VAR-LINK]). Move the cursor to the correct list and press **ENTER**. That's it. S_x is the standard deviation. Scroll down for the 5-number summary! If given data (L1) and their frequency (L2) just do 1-Var Stats List: L1, Freq: L2.

(See page A-5 Appendix B of your book for more details.)

A) Now check and complete the calculations for Assignment 9 number 5 (Mooseburger/McTofu).

B) Data 5, 15, 25, 35, 45, 55, 65
 Frequency 30, 10, 8, 7, 8, 10, 30
 Mean = _____
 S_x = _____

C) List the three methods of illustrating (visual) the distribution of quantitative data and discuss the limitations of each.

A10:

- 1) complete the problems on the class notes above using your calculator where appropriate.
- 2) pages 75-78 / 48,50(just write a few sentences) pages 95-100 / #7, 30.
- 3) check out the relationship between median and mean for various distributions with this applet.
- 4) Review for Block Day's Quiz. Study your class notes (concepts/vocab), assignments, and review chapters 4 and 5 of our book (you can ignore Re-expressing Data pgs 89-91). The quiz will focus primarily on displaying quantitative data and describing distributions numerically but everything covered so far is fair game.