

**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 **2<sup>nd</sup>**, **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, **2<sup>nd</sup>** – ([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.

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**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.