First

Objective: To enter data into the calculator lists a	and find one variable summary statistics.
TI-83+ & TI-84+: step by step instr	uctions are given on this page.

1. Enter data into the statistics list editor using one list;

Individual DataValues: Hours worked per day by a sample of 20 students: 5,6,3,3,2,4,7,5,2,3,5,6,5,4,4,3,5,2,5,3

Press **STAT** press **ENTER** for "**EDIT**". Put data into list L1 pressing ENTER after each value Press 2^{nd} [QUIT] to exit stat list editor <u>after</u> you have entered data, checked it and corrected errors.

Find 1-Variable Summary Statistics using one data list:

Press **STAT** arrow right to **CALC** press **ENTER** for **1–Var Stats**, press **2**nd **L1 ENTER** (If data are in a different list than L1, indicate the appropriate listname)

Read and record the following summary statistics output for 1 Var-Stats:

Average $\overline{X} = _$	Sum $\Sigma x = $	Count n =	Sample Standard Deviation	ı Sx =
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Arrow down using cursor key to second screen to find median and quartiles.

First quartile Q1: _____ Median _____ Third quartile Q3: _____

SORT data into ascending order; use sorted data to create a frequency table. Press STAT then arrow down to "SORTA" press ENTER press 2nd L1 press ENTER Calculator shows "DONE": STAT press ENTER for "EDIT" to see the data now sorted in list L1

Look at the sorted data.	Hours Worked (X)	Frequency	
The number of times a data value appears is its "FREQUENCY". Data can be summarized in a frequency table. X is the number of hours worked.	2		
	3		
	4		
The frequency is the number of students who worked X hours.	5		
ill in frequency in the table at the right.	6		
Your frequency column should total 20 : check it.	7		

3. Entering data from a frequency table into the statistics list editor using two lists:

Press **STAT** press **ENTER** for **EDIT** Put hours into list L2 and Frequency into list L3 Press **2nd QUIT** to exit stat list editor <u>after</u> you have entered data, checked it and corrected errors.

Find 1-Variable Summary Statistics using two lists (data list and frequency list):

Press STAT	arrow right to	CALC	press ENTER	for 1-Var Stats	, press 2nd	L2 , 2 nd L3	ENTER
(If data ar	re in different li	sts than	L2 and L3, ind	icate the appropri	iate listname	es)	

Read and record the following summary statistics output for 1 Var-Stats:

Average $\overline{X} = \underline{\qquad}$ Sum $\Sigma x = \underline{\qquad}$ Count n = $\underline{\qquad}$ Sample Standard Deviation Sx = $\underline{\qquad}$
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Arrow down using cursor key to second screen to find median and quartiles.

 First quartile Q1:
 Median
 Third quartile Q3:

CHECK IT! Your answers for summary statistics in #1 and #3 above should agree with each other.
 If #1 and #3 do NOT agree, check your work for this whole page to find your errors.
 Get help if you have trouble. You need to master BOTH methods - important Math 10 survival skill!

Data from Table 1.9 Section 1.3 Chapter 1 Introductory Statistics from OpenStax free at http://cnx.org/content/col11562/1.17