

## TOPIC: DESCRIBING DATA NUMERICALLY USING A GRAPHING CALCULATOR

### Find 5-Number Summary – TI-84 Calculator

◆ For large data sets, calculating variables like  $\bar{x}$  and  $s$  by hand is very tedious. Use the steps below on a calculator!


#### EXAMPLE

The ages of students in a college statistics class are listed. Use a calculator to find the mean, median, standard deviation, and 1<sup>st</sup> & 3<sup>rd</sup> quartiles of the data sample.

Student Ages in Statistics class									
20	18	21	22	20	19	31	21	24	22
19	23	18	21	21	22	20	19	27	20

$$\bar{x} = \underline{\hspace{2cm}} \quad s = \underline{\hspace{2cm}}$$

$$Q_1 = \underline{\hspace{2cm}} \quad \text{Med} = \underline{\hspace{2cm}} \quad Q_3 = \underline{\hspace{2cm}}$$

 **HOW TO: Find a 5-Number Summary on TI-84**

- 1) **STAT** , Edit... , type #'s in L<sub>1</sub>
- 2) **STAT** , **>** (CALC), 1-Var Stats
- 3) List: L<sub>1</sub> , Calculate

Note: Your calculator doesn't know if the data is a sample or population, so it will display extra info.

#### EXAMPLE

The following data is a sample of the monthly salaries (in dollars) of 30 employees at a medium sized company. Use a calculator to find the mean, range, standard deviation, and variance.

Monthly Salaries (Dollars)														
4174	4507	1860	2294	2130	2095	4772	4092	2638	3169	1466	2238	1330	2482	3135
4444	4171	3919	4735	1130	2685	4380	1769	3391	2515	4485	3853	3433	2215	1955