

Data Analysis Lab TI30X IIS Instructions

Directions for single variable data input and analysis using the TI-30X IIS

In order for statistical operations to be successful you need to be familiar with the keys on your calculator. Specifically you'll need to know the locations of the 2^{nd} , **DATA**, **STAT**, **STATVAR**, **EXIT STAT**, and x^2 keys. In addition you'll be using the arrow and, perhaps, the clear keys. Take a moment to locate these now.

- 1) Turn your calculator on
- 2) Get into the stat mode: 2^{nd} **STAT** **ENTER**
- 3) $\rightarrow\rightarrow$ (hit the right arrow twice) Then **ENTER** This clears the data register
- 3) **DATA** **ENTER**
- 4) 1st data value $\downarrow\downarrow$ (hit the down arrow twice)
- 5) 2nd data value $\downarrow\downarrow$ (hit the down arrow twice)
- 6) Repeat until you've entered all the data
- 7) **STATVAR**

At this point a variable bar appears at the top of the display. By using the right arrow key you can move between the computed sample statistics. The first statistic is "n". It is the number of observations you've entered and it is displayed at the bottom right hand corner of your display screen. Statistic number two is \bar{x} . Use the right arrow key to move over. The value of the statistic is displayed again in the bottom right hand corner of your display screen. S_x is the sample standard deviation. σ_x is the population standard deviation. This is only used in instances where the investigator has census data. The last two statistics are Σx and Σx^2 . These represent the sum of the data values and the sum of the squares of the data values. These may be used later.

- 8) To get the variance move to the s_x location then hit x^2 then **ENTER**. The value of the sample variance appears in the display