

# Statistics Activity 6: One-Variable Descriptive Statistics

Kathleen Mittag and Sharon Taylor

CALCULATORS: Casio: fx-9750G Plus & CFX-9850G Series

## Keystrokes for the Calculator

From the Main Menu, press **2** for STAT.

If there are data in List 1, follow these directions:

- Press **F6** (make sure that the highlighted cell is List 1 by pressing the right/left arrow).
- Press **F4** (DEL-A) then press **F1** (YES).

Enter Data:

- Type the waiting time data in List 1.
- With appropriate cell highlighted, type numerical value then **EXE** to store.

	List 1	List 2	List 3	List 4
1	5.1			
2	2.3			
3	10.2			
4	6.7			
5	1.8			
				5.1

GRAPH CALC TEST TUTOR DIST 6

Find One-Variable Statistics:

- Press **F2** (CALC) then **F6** (SET).
- With 1-Var Xlist highlighted, press **F1** (List1).
- Press **EXIT**.
- Press **F1** (1-VAR).
- Use the **down arrow key** to scroll for more values.

1-Variable	
$\bar{x}$	=4.775
$\Sigma x$	=57.3
$\Sigma x^2$	=365.15
$x\sigma_n$	=2.76198147
$x\sigma_{n-1}$	=2.88479556
n	=12
TIME	2VAR REG SET

1-Variable	
minX	=0
Q1	=2.75
Med	=4.6
Q3	=6.8
$\bar{x}-x\sigma_n$	=2.01301852
$\bar{x}+x\sigma_n$	=7.53698147
TIME	2VAR REG SET

Name \_\_\_\_\_ Date \_\_\_\_\_

## Statistics Activity 6: One-Variable Descriptive Statistics

CALCULATORS: Casio: *fx-9750G Plus* & *CFX-9850G Series*

### Student Worksheet Activity 6

The following data are minutes waiting in the 20 items or less checkout line at a local grocery store.:

5.1	2.3	10.2	6.7	1.8	0	3.2	6.9	8.1	3.4	4.1	5.4
-----	-----	------	-----	-----	---	-----	-----	-----	-----	-----	-----

- a) Calculate and interpret the one-variable statistics for the data.

Mean= \_\_\_\_\_ Median= \_\_\_\_\_ Mode: \_\_\_\_\_

Interpret these measures of central tendency.

\_\_\_\_\_

\_\_\_\_\_

Standard deviation for sample = \_\_\_\_\_

Standard deviation for the population = \_\_\_\_\_

Range = \_\_\_\_\_

Interpret these measures of dispersion.

\_\_\_\_\_

\_\_\_\_\_