4.3 Statistical measures on one variable data

4.3.1 Statistical measurement of data

Suppose you want to do statistical measures on the following sorted data:

4	4	5	5	5	6	6	6	6	6
7	7	8	8	8	8	8	8	9	9

① Create a new document and select Add List & Spreadsheet, and enter each values in the chosen list (here A):

② Press [menu], select Statistics > Stat Calculations > One-Variable Statistics. Select the parameters as follows:

Press [enter] and these results are displayed:

Title	One-Va...
$\bar{x}$	5.3
Σx	53.
Σx^2	287.
$SX := S_{n-1}X$	0.823

Here is the table of notations:

$\bar{x}$: mean	n: size of the sample
Σx: sum of all values	MinX: minimal value
Σx^2: sum of all squares of values	Q_1X: lower quartile
Sx: standard deviation of the sample	MedianX: median
σx: estimation of the the population's standard deviation	Q_3X: upper quartile
	MaxX maximal value

4.3.2 Statistical measurement with list of values and frequency list

Consider the following data

values	4	5	6	7	8	9
frequency	2	3	5	2	6	2

① Create a new document and select Add List & Spreadsheet. Enter the values in one list (here: A) and the frequency list in a second (here: B):

② Press [menu] , select Statistics > Stat Calculations > One-Variable Statistics. Fill the parameters as follows:

One−Variable Statistics

X1 List:	a[] ▸
Frequency List:	b[] ▸
Category List:	▸
Include Categories:	▸
1st Result Column:	c[]
	OK Cancel

Press [enter] .These results should be displayed:

$\bar{x}$	6.65
Σx	133.
Σx^2	931.
$SX := S_{n-1}X$	1.57
$\sigma X := \sigma_n X$	1.53

(See the end of 4.3.1 at page 56 to have the table of notations)

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