Statistics calculations

Example

10 students achieved the following results in a mathematics examination. Draw a graph to classify these results into top, bottom and average score.

Exam results: 68, 73, 92, 86, 78, 95, 69, 75, 82, 81

Before carrying out the following operation, press the reset switch located on the back of the unit and press CL ENTER keys (caution: previously entered equations and memory will be erased).
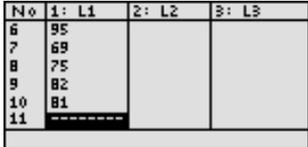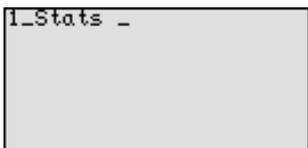
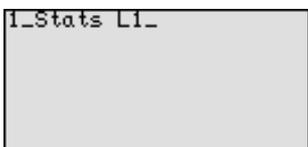| Key Operation	Display	Notes

1 2nd F SET UP

D 2 C 2

Specify two figures after the decimal point on the set up screen.

2 ⊞⊟⊠÷ STAT A ENTER

6 8 ENTER 7 3 ENTER 9 2 ENTER
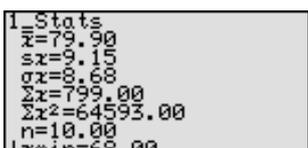8 6 ENTER 7 8 ENTER 9 5 ENTER
6 9 ENTER 7 5 ENTER 8 2 ENTER
8 1 ENTER

Enter all the exam results into the list L1.

3 ⊞⊟⊠÷ STAT C 1

Select the variable quantity of the statistics from the statistics mode.

4 2nd F L1

Specify the list L1 containing the exam data.

5 ENTER

$\bar{x}=79.90$
$sx=9.15$
$\sigma x=8.68$
$\Sigma x=799.00$
$\Sigma x^2=64593.00$
$n=10.00$
$\downarrow x\min=68.00$

Calculates the quantity of the statistics such as average, standard deviation, total and bottom score.

6 2nd F STAT PLOT A ENTER

Set the screen for the various specified values in order to draw the statistical graph with PLOT1.

7 ENTER ▼ ENTER

▼ 2nd F L1

▼ ▼

Input of the specified values for drawing a histogram from the list L1 of the statistical quantity has been completed.

[
on/off: set whether to graph or not
DATA: select variable 1(X) or variable 2 (XY).
List X: set the list of the corresponding graph.
Freq: set frequency
GRAPH: set graph format
]

8 ZOOM A 9

Draw the graph by setting the most suitable screen for the statistical graph.

SHARP