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).
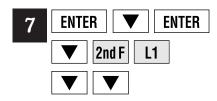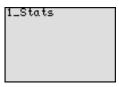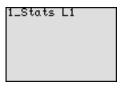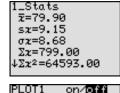
Key Operation	Display	Notes

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 |

1_Stats

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

4 | 2nd F | | L1 |

1_Stats L1

Specify the list L1 containing the exam data.

5 | ENTER |

1_Stats
$\bar{x}=79.90$
$sx=9.15$
$\sigma x=8.68$
$\Sigma x=799.00$
$\downarrow\Sigma x^2=64593.00$

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

6 | 2nd F | | STAT PLOT | | A | | ENTER |

PLOT1   on/**off**
DATA ⊠ XY
ListX:L1
Freq:
GRAPH:

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

7 | ENTER | | ▼ | | ENTER |

| ▼ | | 2nd F | | L1 |

| ▼ | | ▼ |

PLOT1   **on**/off
DATA ⊠ XY
ListX:L1
Freq:
GRAPH:

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