



Data Handling on a Graphical Calculator

STEP 1

To find the data handling or statistics section of your calculator simply press the **STAT** button or find **STATS** on your menu. This gives you access to data lists, calculations and sorting options.

STEP 2

Enter some data to work on. Calculators have a series of lists to edit or enter data into. Input the following heights from *CensusAtSchool* into List 1 often called L1.

1. Clear the list: STAT 4:ClrList L1 ENTER
2. Enter data: STAT 1:Edit ENTER 152 ENTER 168 ENTER ... 175 ENTER

152	168	178	156	172
166	176	185	165	145
177	187	126	168	178
169	156	185	176	159
158	177	168	157	175

Table 1 Height in cm for 25 children.

STEP 3

Now your calculator can do the work.

1) Sort List 1: STAT 2:SortA ENTER (L1) ENTER

2) Calculate statistics for List 1: STAT CALC 1:1-Var Stats ENTER L1 ENTER
This gives the: mean, the sum of x ($\sum x$), sum of x squared ($\sum x^2$), sample and population standard deviations (S_x and σ_x), number of data (n), minimum and maximum values ($\min X$, $\max X$), median (Med), and quartiles (Q_1 and Q_3).

3) Data visualisation.

Plot a histogram

STAT PLOT scroll to turn off the graphs you do not want.

Plot1 ...On ENTER Scroll to the picture of a histogram GRAPH

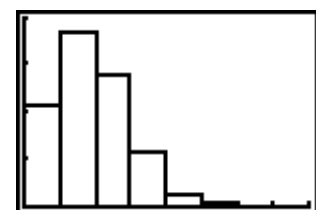
Use WINDOW to reset the scales of the axis.

Plot a boxplot

STAT PLOT Plot 1 Scroll to boxplot ENTER GRAPH

A very useful website all about graphic calculators and uses can be found at

<http://mathbits.com/MathBits/TIsection/Openpage.htm>



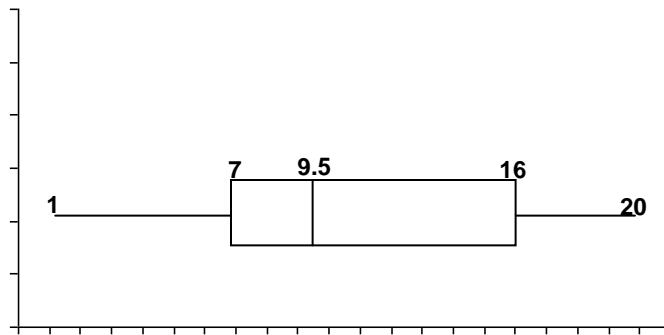
their



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Exercises to try:

1. Can you find numbers that will display a particular box plot - e.g. Find 10 numbers that would produce the following box plot:



2. Are there other sets of 10 numbers that would also give this box plot?
3. Can you find sets of 10 numbers that will give the following?

