

Using GeoGebra for Statistics

Importing data

Data can be copied into the spreadsheet view directly from a table/spreadsheet. The default on opening is the Algebra and Graphics view. To see the Spreadsheet select: **View > Spreadsheet view**

Data sets are available at: www.mei.org.uk/data-sets. The Guardian data blog is also a good source of statistics: www.guardian.co.uk/news/datablog. To use data from these you should download any full data sets to Excel then copy and paste into GeoGebra.

One-variable analysis

In Spreadsheet view highlight one column of data and select One Variable Analysis from the 2nd menu:



This displays 1-variable statistics, such as mean and standard deviation, and offers diagrams, such as boxplots and histograms.

To convert the data to a list select the data values and select Create List from the 3rd menu:
A name can be entered for the list.



Analysis can be performed on the named list in the Algebra/Graphics view by entering functions into the Input bar.

e.g. **Mean[list1]**

BoxPlot[1, 0.5, list1]

SD[list1]

Histogram[list2, list1]

To view a full list of Statistical functions expand the Input Help (small triangle at the very bottom left of the window) and select statistics.

Two-variable regression analysis

In Spreadsheet view highlight two columns of data and select Two Variable Analysis from the 2nd menu:



To convert the data to a list of points highlight two columns and select Create List from the 3rd menu:
A name can be entered for the list and the points will be plotted in the Graphics view.



Multi-variable analysis

Different sets of data can be compared on the same screen. In Spreadsheet view highlight multiple columns of data and select Two Variable Analysis from the 2nd menu:



Probability calculator

The probability calculator (2nd menu in Spreadsheet view or 10th menu in Graphics view) opens a new window that allows probabilities, such as normal, binomial and Poisson, can be investigated.

