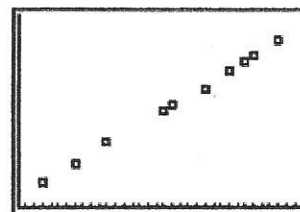


Scatter Plots

A scatter plot is a graph used to determine whether there is a relationship between paired data.

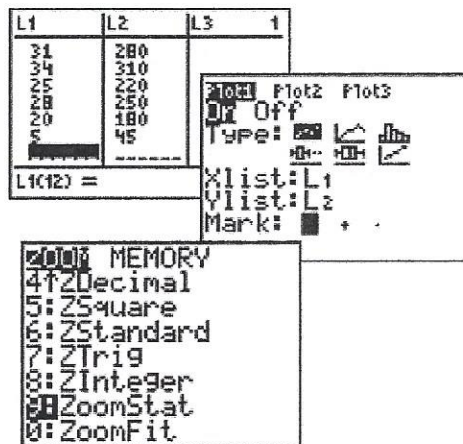
In many real-life situations, scatter plots follow patterns that are approximately linear. If y tends to increase as x increases, then the paired data are said to be a **positive correlation**. If y tends to decrease as x increases, the paired data are said to be a **negative correlation**. If the points show no linear pattern, the paired data are said to have **relatively no correlation**.



To set up a scatter plot:

Clear (or deactivate) any entries in $Y=$ before you begin.

1. Enter the X data values in L1. Enter the Y data values in L2, being careful that each X data value and its matching Y data value are entered on the same horizontal line.
(See [Basic Commands](#) for entering data.)



2. Activate the scatter plot. Press **2nd** **STATPLOT** and choose **#1 PLOT 1**. You will see the screen at the right. Be sure the plot is **ON**, the scatter plot icon is highlighted, and that the list of the X data values are next to **Xlist**, and the list of the Y data values are next to **Ylist**. Choose any of the three marks.

3. To see the scatter plot, press **ZOOM** and **#9 ZoomStat**. Hitting **TRACE** and right arrow will move along the data points.

4. To turn the scatter plot off, when you are finished with this problem:

Method 1: Go to the $Y=$ screen. Arrow up onto the **PLOT** highlighted at the top of the screen.

Press **ENTER** to turn it off.

Method 2: Go to **STAT PLOT** (above $Y=$). Choose your **PLOT** location. Arrow to **OFF**. Press **ENTER** to turn it off.