

Creating Scatter Diagrams on the TI-86

Before you begin, you should clear all stored functions on your calculator.

Graph,
F1: Y=
F4 DelF
Exit
Exit

Drawing the Scatter Diagram

Let's enter these data points:

x	0	0	5	5	10	10	15	15	20	20	25	25
y	4	6	10	7	12	10	15	17	18	21	23	22

2nd Stat
F2: Edit

If there are numbers in the xStat and yStat columns, highlight **xStat** then press **Clear** then **Enter** to remove all of the previous entries. Do the same with the yStat column.

Key the x values in the xStat column and the y values in the yStat column. Press **Enter** after each entry to move the cursor to the next row, same column.

There needs to be a 1 in the fStat column for each entry in the xStat yStat columns. If there isn't a 1, add it. If there are more 1's than entries in the other columns delete them: **highlight** then **Del**.

2nd Stat
F3: Plot
F1: Plot1

With the Cursor blinking on On press **Enter**

Arrow Down to Type then press **F1: Scat** (The other F keys will give other types of plots.)

xList Name should say **xStat** so press **Enter**

yList Name should say **yStat** so press **Enter**

Mark= You have a choice of symbols to use. Press **F1** for the box.

Exit

Be sure that the other two plots say Off. If not press the corresponding F key, highlight **Off** and press **Enter**

Exit

Set the Viewing Window

Manually

Graph
F2: Wind

$x = [-5, 30]$ **Pick values that include all of the points in the problem.**
 $y = [-5, 30]$
 $xsc1 = 2$
 $yscl = 2$

F5: Graph **The scatter diagram is displayed.**

Using the Zoom Function

Graph

F3: Zoom

More

F5: ZData **Calculator will set the viewing window so all data points are displayed.**

The scatter diagram is displayed.