Calculating Correlations

**TI-83 Procedure:**

2nd | CATALOG | DiagnosticOn then press ENTER twice
STAT | EDIT
Enter the values for X into L1
Enter the values for Y into L2
STAT | CALC | 8:LinReg(a+bx)
Enter: L1 , L2

Window output: The last item listed, r, is the correlation.

**TI-86 Procedure:**

2nd | LIST | EDIT
Enter the values for X into xStat
Enter the values for Y into yStat
EXIT
2nd | STAT | Calc | LinR
2nd | LIST | Names | xStat , yStat Enter

Window output: The correlation is listed after corr =

**Excel Procedure:** can be used for two or more variables

Tools | Data Analysis | Correlation

------Input------------------------
Input Range: Enter the range of all the variables for which you want correlations. These variables should be next to each other on the worksheet. Be sure to include the label row.

Grouped By: select: Columns
check Labels in First Row

------Output Options------------------------
select New Worksheet Ply: enter Correlation

Output: A new worksheet will appear with a correlation table. Where a row and column intersect, you will find the correlation between the variable listed at the top of the column and the variable listed at the beginning of the row.