Information Sheet

Graphs on StatCrunch

Bar Graph: Categories in one column, frequencies in next column Graph > Bar plot

Pie Chart: Categories in one column, frequencies in next column Graph > Pie Chart > With Summary

Stem-and-Leaf:

Data in one column Graph > Stem-and-leaf

Boxplot:

Data in one column Graph > Boxplot Select the boxes for drawing the graph horizontally and for using fences to identify outliers

StatCrunch Calculations

Mean, median, ...: Data in one column Stat > Summary Statistics > Columns Select the measure(s) you want to calculate

Correlation & Regression:

x-values in one column, corresponding y-values in next column Stat > Regression > Simple Linear Select x & y columns Output will include the correlation coefficient and the regression equation

Binomial/Poisson/Normal/Reverse Normal:

You will find the appropriate calculator under Stat > Calculators (Round all probabilities to 4 places.)

Formulas

Lower Fence: $Q_1 - 1.5(IQR)$

Upper Fence: $Q_3 + 1.5(IQR)$

 $IQR = Q_3 - Q_1$

Permutations:
$$_{n}P_{r} = \frac{n!}{(n-r)!}$$
 Combinations: $_{n}C_{r} = \frac{n!}{r!(n-r)!}$

General Addition Rule: P(A or B) = P(A) + P(B) - P(A and B)

Multiplication Rule: $P(All A) = P(A_1) \cdot P(A_2) \cdot ...$

Binomial: List n, x, and p

Poisson: List mean and *x*

Normal Probability: List mean, standard deviation, and x

Reverse Normal: List mean, standard deviation, tail (left or right) and area