# StatCrunch Basics

## Chapter 2

<u>Dot Plot</u>

      Graph → Dot Plot

<u>Stem and Leaf Plot</u>

      Graph → Stem and Leaf

<u>Histogram</u>

      Graph → Histogram (Bins for Class start and width. Check "Value above bar" to see frequencies.)

## Chapter 3

<u>Mean, Median, Range, Q1, Q3, Standard Deviation, etc...</u>

      Stat → Summary Stats → Columns  (Hold Ctrl (Command on macs) to select multiple statistics)

<u>Box Plot</u>

      Graph → Box Plot (Check box to "Draw box horizontally")

## Chapter 4

<u>Scatterplot</u>

      Graph → Scatterplot

<u>Correlation Coefficient/Regression Line/Best Predicted Value</u>

      Stat → Regression → Simple Linear (Keywords: regression, correlation, prediction)

## Chapter 6

<u>Binomial Probability</u>

      Stat → Calculators → Binomial (Mean and std. dev. for binomial are $\mu = np, \sigma = \sqrt{npq}$)

<u>Area Left/Right/Between z-scores or Probability/Percent of Normally Distributed Values</u>

      Stat → Calculators → Normal (Recall for z-scores, mean = 0, std. dev. = 1)

<u>Finding a Score given an Area/Probability/Percent</u>

      Stat → Calculators → Normal (Recall for z-scores, mean = 0, std. dev. = 1)

## Chapter 7 & 8 & 9

Confidence Interval/Hypothesis Test for p

  Stat → Proportion Stats → One/Two Sample → with Summary

Confidence Interval/Hypothesis for μ

  Stat → T Stats → One/Two Sample or Paired (Keyword: paired, mean of the differences) → with Summary

## Chapter 10

Goodness of Fit

  Stat → Goodness of Fit → Chi-Square Test  (Goodness of Fit testing involves more than 2 proportions)
  (Keywords: same, equally likely, fits the distribution)

Test for Two-way Tables

  Stat → Tables → Contingency → with Summary  (Keyword: independent)

  (Select all columns containing data. Then Row Labels (make sure you enter the row labels in a column))

## Chapter 11

ANOVA Test

  Stat → ANOVA → One Way  (ANOVA testing involved more than 2 means)

  (Select all columns containing data.)