1. Introduction to Statistics with “R Studio”

Suppose we measure the weights of 10 tomatoes, in ounces.

Enter this data set, giving it the name “tomatodata”:

tomatodata = c( 6.3, 7.2, 6.8, 5.4, 6.5, 5.9, 6.6, 6.5, 7.1, 7.0)

Take the average:

mean(tomatodata)

Take the median:

median(tomatodata)

Find the standard deviation:

sd(tomatodata)

Find the largest number:

max(tomatodata)

Find the smallest number:

min(tomatodata)

Find the 30th percentile:

quantile(tomatodata,0.30)

Find the five number summary (min, 25th percentile, median, 75th percentile, & maximum):

quantile(tomatodata)

Find the interquartile range (75th percentile minus the 25th percentile)

IQR(tomatodata)

Make a histogram:

hist(tomatodata)

Make a box plot (display the five number summary):

boxplot(tomatodata)

Make a horizontal box plot:

boxplot(tomatodata,horizontal=TRUE)