Part 1:A picture containing shape

Description automatically generated

Part 2:Chart

Description automatically generated

Part 3:

Text

Description automatically generated

Essay Question:

My bottom 3 plots look so different from the first simply because the top left plot is utilizing the randi() command whereas the bottom 3 are using the randn() command. In part 2, the variances get smaller while the mean stays the same because when multiplying random numbers, you will almost always regress towards the mean. This means that you will decrease the variance of a set by making it the average of several of its rolls all the time. If randn() was used for part 3, the results would likely not be similar for the amount of yahtzees for each number. Namely, that the number of yahtzees for 3,4 would be much greater than the extremes like 1,6.