Project: Bell Shape Distribution & The Magic of Average Name: _____

Part I: Your visual estimate of the size of _____:

Record your measure: _____

Record the results from the whole class: (Enter them into SPSS)

Find the **mean** of this data set: _____
Find the **sample standard deviation** of this data set: _____
Find the **sample variance** of this data set: _____
Do the data values follow a bell shape distribution? ___ p-value from normality test: _____
Does the q-q plot form a straight line pattern? _____
If we use the p-value from normality test to conclude the normality of the distribution with 0.05 as the decision criterion, do the data values suggest that the data was from a normal distribution based on the p-value of the normality test? Yes No (circle the answer)

Part II: Your visual estimate of the size of _____:

Record your measure: _____

Record the results from the whole class: (Enter them into SPSS)

Find the **mean** of this data set: _____
Find the **sample standard deviation** of this data set: _____
Find the **sample variance** of this data set: _____
Do the data values follow a bell shape distribution? ___ p-value from normality test: _____
Does the q-q plot form a straight line pattern? _____
If we use the p-value from normality test to conclude the normality of the distribution with 0.05 as the decision criterion, do the data values suggest that the data was from a normal distribution based on the p-value of the normality test? Yes No (circle the answer)

The actual size of _____ is _____.

Part III: Compare the results from Part I and Part II on sample means, sample standard deviations and sample variances comment on your findings.