Writing A Professional Distribution Description

Population: (**#1** Describe population with all known details)   **units** = give unit of measure

Variable: (**#2** Give variable exactly as shown in source)   **Type: #3** Categorical OR Quantitative

Shape: A box plot and histogram were examined to determine the shape of the distribution. The histogram was displayed using a bin width of **#4** (**#5** unit) increments. Visual inspection of the histogram found the distribution to be (**#6** ___modal).

The Fisher skew statistic was **#7**_____ **units**. This statistic fell (**#8**_____) indicating that the distribution's shape is (**#9**_____).

#8 Choices: outside the computed range of -___ to +___ OR inside the computed range of -___ to +___ OR near 0.

#9 Choices: highly skew right. OR highly skew left. OR slightly skew right. OR slightly skew left. OR nearly symmetric.

Center: Mean = **#10** units,   Median = **#11** units,   Mode = **#12** units

The best measure of central tendency is the (**#13**_____ mean OR median) because the distribution is (**#14**_____). This shape also results in the mean being (**#15**_____ nearly equal to OR greater than OR less than) the median.

Spread: Range = **#16** units,   IQR = **#17** units, σ = **#18** units

The best measure of spread is the (**#19**_____ range and IQR OR standard deviation) because the distribution is (**#20**_____).

Outliers: IQR Method: Adding 1.5 times the IQR to the third quartile value of **#21** units results in an upper outlier threshold of **#22** units. Subtracting 1.5 times the IQR from the first quartile value of **#23** units results in a lower outlier threshold of **#24** units. Examination of the data found (**#25** no OR give #) outliers that exceeded these thresholds, (**#26**_____ list all outlier values OR write none).

Standard Deviation (σ) Method: Adding and subtracting three standard deviations from the mean establishes an upper outlier threshold of **#27** units and a lower outlier threshold of **#28** units. Examination of the data found (**#29** no OR give #) outliers that exceeded these thresholds, (**#30**_____ list all outlier values OR write none).

The best method for outlier determination is the (**#31**_____ IQR Method OR Standard Deviation Method) because the distribution is (**#32**_____).