Describe Population Distribution Population: (Describe population with all known details) Variable: (Give variable exactly as shown in source) **Type:** Categorical or Quantitative, Measurement Scale, Discrete or Continuous Shape: A (boxplot; dotplot; stemplot; and histogram) (were/was) examined to determine the shape of the distribution. The (dotplot; stemplot; and histogram) (were/was) displayed using a bin width of (unit of measure) increments. All of these plots (were/was) found to be (__modal) and (nearly symmetric; highly skew right; highly skew left; slightly skew right; slightly skew left). **OR** The (boxplot; dotplot; stemplot; and histogram) appear(s) to be (__modal) and (nearly symmetric; highly skew right; highly skew left; slightly skew right; slightly skew left). However, the (boxplot; dotplot; stemplot; and histogram) appear(s) to be (__modal) and (nearly symmetric; highly skew right; highly skew left; slightly skew right; slightly skew left). The Fisher skew statistic was ____. This statistic fell (outside the computed range of -____to +____; inside the computed range of -____to +____; near 0) indicating that the distribution's shape is (highly skew right; highly skew left; slightly skew right; slightly skew left; nearly symmetric). **Center:** Mean = ____ (units), Median = ____ (units), Mode = ____ (units) The best measure of central tendency is the (mean, median) because the distribution is (symmetric; skewed). This (symmetric; skew right; skew left) shape causes the mean to be (nearly equal to; greater than; less than) the median. Range = ____ (units), IQR = ____ (units), σ = ____ (units) **Spread:** The best measure of spread is the (range and interquartile range; standard deviation) because the distribution is (symmetric; skewed). **Outliers:** IQR Method: Adding 1.5 times the IQR to the third quartile value of ____ (units) results in an upper outlier threshold of ____ (units). Subtracting 1.5 times the IQR from the first quartile value of ____ (units) results in a lower outlier threshold of ____ (units). Examination of the data found (no; #) outliers that exceeded these thresholds, (list ALL outlier values).

Standard Deviation (σ) Method: Adding and subtracting three standard deviations from the mean of ____ (units) establishes an upper outlier threshold of ____ (units) and a lower threshold of ____ (units). Examination of the data found (no; #) outliers that exceeded these thresholds, (list ALL outlier values).

The best measure of outliers is the (IQR Method; Standard Deviation Method) because the distribution is (symmetric; skewed).

KEY: RED items should be chosen from options provided exactly as written. Note each option is separated by commas.

BLUE items require appropriate words, usually the unit of measure (eg feet, \$Millions, siblings)

ORANGE lines should be filled with appropriate numbers.