

Fill in the blank

Name 8 descriptive statistics.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_  
5. \_\_\_\_\_ 6. \_\_\_\_\_ 7. \_\_\_\_\_ 8. \_\_\_\_\_

Multiple choice

A researcher wants to display her univariate data with a graphic that helps convey skew and wants to display her multivariate data with graphics that help spot multivariate outliers. Her data are continuous. Which combinations of graphics should she use?

- A. Histogram; Density Plot
- B. Boxplot; Scatterplot
- C. Histogram; Boxplot
- D. Boxplot; Bar Graph

Write no more than 3 sentences on the following

Considering how nice it is to work in raw data units, why would anyone consider working with transformed data?

Write no more than 5 sentences on the following

Suppose that a researcher gathers data about mood and aggression such that higher scores on mood indicate a happier mood and higher scores on aggression indicate higher aggression. He correlates the variables and obtains a result of -0.50. Although the student understands basic univariate concepts such as variation and data transformations, the concept of correlation eludes him. Explain what a correlation of -0.50 means.