

Summary: Differences between univariate and bivariate data.

Univariate Data	Bivariate Data
<ul style="list-style-type: none"> involving a single variable 	<ul style="list-style-type: none"> involving two variables
<ul style="list-style-type: none"> does not deal with causes or relationships 	<ul style="list-style-type: none"> deals with causes or relationships
<ul style="list-style-type: none"> the major purpose of univariate analysis is to describe 	<ul style="list-style-type: none"> the major purpose of bivariate analysis is to explain
<ul style="list-style-type: none"> central tendency - mean, mode, median dispersion - range, variance, max, min, quartiles, standard deviation. frequency distributions bar graph, histogram, pie chart, line graph, box-and-whisker plot 	<ul style="list-style-type: none"> analysis of two variables simultaneously correlations comparisons, relationships, causes, explanations tables where one variable is contingent on the values of the other variable. independent and dependent variables
<p>Sample question: How many of the students in the freshman class are female?</p>	<p>Sample question: Is there a relationship between the number of females in Computer Programming and their scores in Mathematics?</p>