

Chapter 3: Examining Relationships

Most statistical studies involve more than one variable. Often in the AP Statistics exam, you will be asked to compare two data sets by using side-by-side boxplots or histograms, etc. However, there are times when we want to examine relationships among several variables for the same group of data. For example, is the temperature outside related to the amount of ice cream sold. Or does the amount of TV watched affect IQ? When you examine the relationship between two variables you need to start with a scatterplot.

Section 3.1: Scatterplots and Correlation

A scatterplot shows the relationship between two quantitative variables measured on the same individuals. The values of one variable appear on the horizontal axis, and the values of the other variable appear on the vertical axis. Each individual in the data appears as a point in the plot fixed by the values of both variables for that individual.

A **response variable** measures the outcome of a study. An **explanatory variable** helps explain or influences change in a response variable.

You will often find explanatory variables called **independent variables**, and response variable called **dependent variables**. The idea behind this language is that the response variable depends on the explanatory variable. Because the words independent and dependent have other, unrelated meanings in statistics, we won't use them here.

Example:

The costs of mountain bikes are given in the following table, along with overall rating scores given to each bike by *Consumer Reports* magazine. Graph the data using a scatterplot. Identify the explanatory and response variables.

Model	Price	Rating	Model	Price	Rating
Trek 9800S	\$3000	80	Raleigh SL-80	\$2100	80
GT XCR-8000	2400	80	Schwinn Frontier GS	225	80
Specialized FSR	\$1800	79	Specialized Hardrock	800	80
Cannondale M400	\$1800	78	Giant Bloomer	2000	78
Trek 6200	780	80	Trek 820	2500	78
Schwinn Mission 3	680	80	Diamondback Response	800	78
Specialized Rockhopper	680	79	GT Outpost	220	78
Haro Escape A7.1	440	77	Mariposa SC4.1	850	80
Giant Talon SE	450	77	Full Moon	210	80
Mariposa SPX-3	550	80	Specialized Globe A.1	800	80
Diamondback Supreme	580	81	Schwinn Storm GS	400	80
Motiv Rockledge	180	80	Raleigh SL-80	800	77
Huffy Apollo 30700	140	77			

Source: *Consumer Reports*, June 1999.

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