

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	\$3099	80	Raleigh SL-80	\$2129	80
GT XCR-8000	2499	80	Schwinn Frontier GS	225	80
Specialized FSR	\$1899	79	Specialized Hardrock	899	80
Cannondale M400	\$1899	78	Giant Bloom	299	78
Trek 6200	799	80	Trek 820	259	78
Schwinn Mission 3	699	80	Diamondback Response	309	78
Specialized Rockhopper	699	79	GT Outpost	229	78
Haro Escape A7.1	449	77	Mariposa SC4.1	259	80
Giant Talon SE	459	77	Full Moon	219	80
Mariposa SPX-3	559	80	Specialized Globe A.1	999	80
Diamondback Supreme	589	81	Schwinn Storm GS	499	80
Motiv Rockledge	189	80	Raleigh SL-80	309	77
Huffy Apollo 30789	149	22			

Source: *Consumer Reports*, June 1999.

Ap Statistics Chapter 3 Examining Relationships 3 1

JG Myers



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