

11:50 Ind - what you control

Independent and Dependent Variables

Name: _____

Dep- observed values, results of a rule

Identify the independent and dependent variables.

- A study was conducted to determine the relationship between the length, in dm, of an ear of corn and the amount, in tons per acre, of fertilizer used.

Ind fertilizer used Dep. Length of corn
- Ann Wilders has determined that the cost, in dollars, of stuffing envelopes for a customer is a function of the number of envelopes to be stuffed.

Ind. # of envelopes Dep. ^{Total} COST
- The National Highway Traffic Safety Administration has collected data on the percent of alcohol related traffic deaths in the US over the period 1982-1993.

Ind time Dep % Alc. Rel. traffic deaths
- The National Cable Television Association has tracked the approximate average monthly rate, in dollars, for basic cable subscribers between the years 1990 and 1993.

Ind Time Dep Avg monthly rate
- A study was conducted to track the amount of alcohol in the bloodstream, in oz/ml, over the 12 hour period following alcohol consumption.

Ind Time after consumption Dep Alcohol bloodstream
- The stopping distance, in feet, of an automobile is determined by the speed of the vehicle, in miles per hour.

Ind speed Dep ~~the~~ stopping distance
- The population of a certain mammal, in hundreds, depends on the number, in hundreds, of a smaller mammal that serves as its primary food supply.

Ind smaller mammal as food supply Dep Pop of larger mammal
- The number, in hundreds, of the smaller mammal depends upon the amount, in pounds per acre, of its food supply, a type of plant.

Ind pounds per acre food supply Dep pop. smaller mammal
- The total number of multimedia personal computers in US homes for the years 1992 - 1996 are given in the table. (Numbers are in millions)

Ind
Dep

Year	1992	1993	1994	1995	1996
# of PCs	.47	1.98	3.63	5.58	7.98

Ind Year Dep. # of pcs

10) Sales. In thousands of dollars, of a certain company are shown below.

Year	0	1	2	3	4
Sales	48	59	66	75	80

Ind Year Dep. Sales

11) The table lists the total federal debt, in billions of dollars, from 1985 to 1989.

Year	1985	1986	1987	1988	1989
Federal Debt	1828	2130	2354	2615	2881

Ind year Dep. Fed. Debt