## Correlational vs. Experimental Studies

For each of the following decide whether it is a correlational study or an experiment. If it is a correlational study decide what type of correlation was observed. If it is an experiment identify the independent variable manipulated by the researcher.

## Remember:

- Correlational research looks for some relation between 2 or more sets of data. Even if such a relationship is found, no cause-effect conclusions can be drawn.
- Positive correlation: the relationship is such that high scores in one data set tend to be associated with high scores in another data set (and low scores tend to be associated with low scores)
- Negative correlation: the relationship is inverse; that is, high scores in one data set tend to be associated with low scores in the other data set, and visa versa.
- Experiment: under carefully controlled conditions researcher compares the responses of participants exposed to an
  intentionally manipulated independent variable to the responses of participants not exposed to that independent
  variable.

1. After administering a test of self-esteem to all the 6th graders in a school, the school psychologist has 6th grade

teachers monitor the number of times each 6th grader voluntarily participates in class (answering questions, offering opinions) and determined the lower the self-esteem score of the child, the less they participated. Type of study \_\_\_\_\_ Type of correlation OR Independent variable \_\_\_\_\_ 2. A survey study conducted in England found that wealthy women between the ages of 30 and 50 reported more frequent sex, more orgasms, and more enjoyment of sex than women of the same age from poorer households. Type of study \_\_\_\_\_ Type of correlation OR Independent variable 3. A cognitive psychologist tests students' ability to recall of textbook material studied for thirty minutes under either noisy or quiet conditions. Type of study \_\_\_\_\_ Type of correlation OR Independent variable 4. Using photographs, a social psychologist had participants rate the attractiveness as well as the perceived competence of 50 individuals. Those individuals rated as the most attractive were also rated as the most competent. Type of study \_\_\_\_\_ Type of correlation OR Independent variable \_\_\_\_\_ 5. After observing and treating hundreds of patients, Dr. Bashir has come to the conclusion that the larger the ridges on a Klingon's forehead, the lower their self-control when provoked. Type of study \_\_\_\_\_

Go to <a href="https://www.neurosciencenews.com">www.neurosciencenews.com</a>, choose an article that looks interesting(many to choose from). On your own paper, discuss the research method used and the procedures followed. Include the title of the article!

Type of correlation OR Independent variable

## Experimental Research

	epression, 50 receive 8 weeks of a new cognitive-behavioral therapy, was list for 8 weeks. At the end of the 8 weeks all 100 are given psycholog sion.	
Independent Variable:	Dependent Variable:	
Experimental Group:	Control Group:	
female rats receive daily injections	ffects of anabolic steroids on the aggressive behavior of female rats. 24 of a placebo (fake drug), while 24 others receive daily injections of the scommunal cages of all rats allow all aggressive encounters to be counted	steroic
Independent Variable:	Dependent Variable:	
Experimental Group:	Control Group:	
Independent Variable: products packed). Workers in two e	sted in whether lowering the temperature in a packing room will increase Dependent Variable: productivity (number quivalent packing rooms participate in the study. One room is maintain the usual company temperature of 76 degrees.	er of
Experimental Group:	Control Group:	
behavior of college students diagno capsules contain Attendomax, anot Ritalin which has been used for ma	ducting research of their new drug Attendomax to improve the note-taking sed with Attention Deficit Hyperactivity Disorder. Fifty of the students resher fifty receive capsules which look the same but actually contain the cap years. All students attend the same series of lectures and have their ared for completeness and accuracy.	eceive drug
Independent Variable:	Dependent Variable:	
	Control Group:	
Here is your opportunity to des	cribe an experiment of your own creation:	
I would like to investigate the effects of	of	
on this behavior:	·	
Half my participants would		
while the others would	,	
Independent Variable:	Dependent Variable:	
	Control Crouns	