JIGSAW: Experimental Method

Attention! Before answering the following questions read about the alcohol/aggression experiment.

Experiments and Hypothesis Testing (p. 23)

1. What is the only research method that can be used to identify a cause and effect relationship?
2. An experiment is designed to test an \_\_\_\_\_\_\_\_\_.
3. What is a prediction about a cause-effect relationship between two or more variables?
4. What is any condition or factor that can be manipulated, controlled, or measured?
5. List two examples of variables with a cause and effect relationship.
6. Summarize the experiment on p. 23.

Independent and Dependent Variables (p. 24)

1. What is an independent variable? Example?
2. An independent variable is also known as the \_\_\_\_\_\_\_\_.
3. True or False: Researchers manipulate independent variables to determine cause in another behavior.
4. Is the dependent variable affected by the independent variable?
5. When is the dependent variable measured?
6. In the alcohol/aggression experiment, what was the dependent variable?

Experimental and Control Groups (p. 24)

1. What is an experimental group? Example?
2. What is a control group? Example?
3. What is the purpose of the control group?

Sources of Bias in Experimental Research (p. 26)

1. Can a researcher assume that a change in an independent variable is the cause of change in the dependent variable?
2. What is a confounding variable?
3. Why can’t researchers allow participants to choose to be in either the experimental or control group?
4. How do you control for selection bias?
5. What is the placebo effect?
6. What is a placebo?
7. What is the double-blind technique?