

For each of the following experiments identify the Independent and Dependent variables as well as one potentially confounding variable.

1. A researcher wants to test if listening to loud music while studying leads to lower test scores. One group listens to loud music, the second group listens to no music and they are tested on a list of 20 words.

Independent Variable _____

Dependent Variable _____

Confounding Variable _____

2. Professor Jones believes that drinking 5 glasses of milk a day will make one grow. He has 10 6 year-old children drink 5 glasses of milk a day and another 10 drink orange juice. The experiment continues for 6 months, after which he measures how much the children have grown since the beginning of the experiment.

Independent Variable _____

Dependent Variable _____

Confounding Variable _____

3. A psychology students is trying to determine if sight or taste influence our perception of taste more. She colors Jell-O with food coloring and gives blue Jell-O to one group of students although it is actually lemon flavor. The other students have lemon Jell-O that is it's normal yellow color. Many of the students who taste the blue Jell-O report having tasted blueberry Jell-O.

Independent Variable _____

Dependent Variable _____

Confounding Variable _____

4. An athletic trainer believes that drinking Gatorade instead of water will help his athletes recover more quickly between intervals. He tests 2 runners who are fairly equivalent in terms of times and recovery rate. One only drinks water, the other only Gatorade, he time how long it takes each to recover to their resting heart rate after each interval. He continues this for the entire season.

Independent Variable _____

Dependent Variable _____

Confounding Variable _____

5. A Psychology instructor believes that her students will do better on their exam if they study for at least three hours. She takes the same group of students before each exam and conducts a three-hour study session. The rest of the students study as normal. She conducts these sessions for each exam throughout the year and compares the scores on the exams for each of the students.

Independent Variable _____

Dependent Variable _____

Confounding Variable _____