

Senior Project (WS-2)

Name: _____ #: _____

Date: _____ Block: _____

Examine each of the following experiments/projects and identify the appropriate components. List a few examples of possible delimitations and limitations.

1. Pavlov's Dog (Classic Conditioning)-A dog is placed in a room. Each time just before the dog is feed, a bell rings. Eventually, the bell is ringed without the dog being feed. The dog now salivates when hearing a bell ring.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations:

2. A group of students are chosen randomly from the population. Half of these students are taught math with a new computer program design to aid in the learning of math. The other students remain in the traditional math class. At the end of the semester, these students will all take a standardized math test.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations:

3. Dr. Shank spends a year researching the ancestors of his father for the purpose of constructing a genealogy. He writes a book documenting his findings.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations:

4. Five thousand people between the ages of 20-30 volunteer for an experiment. Each is given a full heart and lung check-ups. They are then separated into two distinct groups according to percent body fat. For the next three years the group with a higher body fat is placed on a strict diet, and required to exercise three to four days a week. Finally the two groups are brought back in for a full heart and lung check up and percent body fat test.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations:

5. John wants to raise money for the homeless. He has organized a benefit dinner and a charity auction. After the two benefits he donates 500 dollars to the local shelter.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations:

6. Dan's grandfather was in Vietnam. He fought on the front lines. He has always wondered how it may have affected his grandfather's life choices. Dan decides to research the life styles of individuals who fought in the Vietnam. He compares these life styles to two other groups: men who went to Vietnam, but didn't fight in the front lines, and men who didn't go to Vietnam.

Type of Research/Project:

Experimental Design:

Independent variable:

Dependent variable:

Delimitations:

Limitations: