

Independent and dependent variables: Practice worksheet

Please identify the independent and dependent variables in the following descriptions of experiments:

- 1) Students watched a cartoon either alone or with others and then rated how funny they found the cartoon to be.

Independent Variable:

Dependent Variable:

- 2) A comprehension test was given to students after they had studied textbook material either in silence or with the television turned on.

Independent Variable:

Dependent Variable:

- 3) Some elementary school teachers were told that a child's parents were college graduates, and other teachers were told that the child's parents had not finished high school; they then rated the child's academic potential.

Independent Variable:

Dependent Variable:

- 4) Workers at a company were assigned to one of two conditions: One group completed a stress management training program; another group of workers did not participate in the training. The number of sick days taken by these workers was examined for the two subsequent months.

Independent Variable:

Dependent Variable:

- 5) Students at a University were split into two groups and each received a different text for a philosophy course. One group received a traditional text book, while the other received an interactive textbook on a tablet computer. After the course, the final exam marks between the two groups of students was compared.

Independent Variable:

Dependent Variable:

Try and design an experiment from the following hypotheses.

1. The more time people spend using social media, the less able they are to express themselves in conversation.

Experiment:

Independent Variable:

Dependent Variable:

1. Drinking energy drinks makes people more aggressive.

Experiment:

Independent Variable:

Dependent Variable:

2. Taking a nap in the afternoon makes people more relaxed and less irritable for the rest of the day.

Experiment:

Independent Variable:

Dependent Variable:

3. Spending time with a cat or dog decreases the amount of stress someone is feeling and allows them to perform better on tests.

Experiment:

Independent Variable:

Dependent Variable:

4. Eating breakfast in the morning increases the ability to learn in school.

Experiment:

Independent Variable:

Dependent Variable: