

Name _____
Science _____

Date _____
IV & DW WS Review

Part 1 Directions: Identify the independent and dependent variables in the following statements.

1) The more time people spend using social media, the less they read books.

Independent Variable: _____

Dependent Variable: _____

2) Drinking energy drinks makes people more aggressive.

Independent Variable: _____

Dependent Variable: _____

3) Taking a nap in the afternoon makes people more focused for the rest of the day.

Independent Variable: _____

Dependent Variable: _____

4) Spending time with a family dog decreases the amount of stress someone is feeling.

Independent Variable: _____

Dependent Variable: _____

5) Eating breakfast in the morning increases the ability to learn in school.

Independent Variable: _____

Dependent Variable: _____

Part 2 Directions...More Challenging: 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 grades.

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 next 2 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 textbook, while the other received an interactive textbook on a tablet computer. After the course, the final exam grades between the two groups of students was compared.

Independent Variable: _____

Dependent Variable: _____

Name _____
Date _____

Pd _____
Variables: Ind. and Dep.

Independent and Dependent Variables: ANSWERS

Part 1 Directions: Identify the independent and dependent variables in the following statements.

1) The more time people spend using social media, the less they read books.

Independent Variable: **Time on Social Media**

Dependent Variable: **Less books read**

2) Drinking energy drinks makes people more aggressive.

Independent Variable: **Drinking energy drinks**

Dependent Variable: **Aggressive behavior**

3) Taking a nap in the afternoon makes people more focused for the rest of the day.

Independent Variable: **Time spent napping in the afternoon**

Dependent Variable: **Focus**

4) Spending time with a family dog decreases the amount of stress someone is feeling.

Independent Variable: **Spending time with a family dog**

Dependent Variable: **Amount of stress someone is feeling.**

5) Eating breakfast in the morning increases the ability to learn in school.

Independent Variable: **Eating breakfast**

Dependent Variable: **Ability to learn**

Part 2 Directions...More Challenging: 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: **Watching cartoons solo or with others**

Dependent Variable: **How funny the cartoon is**

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: **Studying with or without TV**

Dependent Variable: **Achievement on a test**

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 grades.

Independent Variable: **Education of parents**

Dependent Variable: **Children's grades**

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 next 2 months.

Independent Variable: **Stress Management Training**

Dependent Variable: **Sick days taken**

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 grades between the two groups of students was compared.

Independent Variable: **Type of book used in college class**

Dependent Variable: **Final exam grade**