Science Variable Practice

Directions: Choose the answer that best answers each question. Circle A, B, or C. Type the answer in the box.

1. This is the variable that you change in an experiment.

A. dependent

B. independent

C. controlled

2. This is the variable that you observe in an experiment.

A. dependent

B. independent

C. controlled

3. These are the variables that you keep the same in an experiment.

A. dependent

B. independent

C. controlled

4. Isaac designed an experiment to see how the amount of water given would affect the growth of the plant. Which variable is the independent variable?

A. the amount of water

B. the growth of the plant

C. the amount of sunlight

5. Two students wanted to see which size race car would go the fastest down a ramp. Which variable should be controlled or held constant to keep the experiment fair?

A. the size of the cars

B. the height of the ramp

C. the color of the cars

6. Tiffany wants to determine which food her cat likes best. Which would be the dependent variable of her experiment?

A. the amount of food eaten

B. the type of cat food given

C. the color of the cat bowl

7. In an experiment about growth, seeds were placed in dishes that contained moist paper towels at different temperatures. Which would be the independent variable?

A. the number of seeds

B. the temperature

C. the types of seeds

8. A student wanted to see how the amount of fertilizer would affect the number of potatoes produced in the garden. Which is the dependent variable for this investigation?

A. the amount of fertilizer

B. the number of potatoes produced

C. the amount of water and sunlight

LIVEWORKSHEETS