

Name: \_\_\_\_\_

For each item below, specify the independent and dependent variables, as well as constants.

1. A study was done to find if different tire treads affect the braking distance of a car.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

2. The time it takes to run a mile depends on the person's running speed.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

3. The height of bean plants depends on the amount of water they receive.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

4. The higher the temperature of the air in the oven, the faster a cake will bake.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

5. Lemon trees receiving the most water produced the most lemons.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

6. An investigation found that more bushels of potatoes were produced when the soil was fertilized more.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

7. Students measured the temperature of the water at different depths in Lake Skywalker and found that the temperature varied.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

8. The amount of pollution produced by cars was measured for cars using gasoline containing different amounts of lead.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_

9. Four groups of rats are first massed and then fed identical diets except for the amount of vitamin A they receive. Each group gets a different amount. After 3 weeks on the diet, the rats' masses are measured again to see if there has been a decrease.

I: \_\_\_\_\_ D: \_\_\_\_\_ C: \_\_\_\_\_