

Matching

Match the word to the definition. Write the letter on the line

- 6 D Scientific inquiry
- 7 C Hypothesis
- 8 G Control group
- 9 H Experimental group
- 10 B Independent variable
- A Dependent variable
- E Scientific theory
- F Scientific law

- A This group shows the effect of the variable being tested
- B This is the one variable that is changed
- C A well-tested explanation for experimental results
- D The many ways in which scientists study the natural world
- E A possible answer to a scientific question
- F This describes an observed pattern in nature
- G This group is left alone and not experimented on
- H This is the variable that gets measured



Identifying

Read through the following scenarios. Identify the control group, the experimental group, the independent variable, and the dependent variable

change if outcome measured by Does not change

Scenario	Independent Variable	Dependent Variable	Experimental Group	Control Group
A company wants to test a new dog food that is supposed to help overweight dogs lose weight. 50 dogs are chosen to get the new food, and 50 more continue their normal diets. After one month, the dogs are checked to see if they lost any weight.	14 test new dog food	15 the dogs are checked to see if they lost the weight	16 50 dogs to get new food	17 50 dogs continue normal diet
A new sunscreen has been developed that is supposed to be more effective at preventing sunburn. 30 participants spray one arm with the new formula, and spray the other arm with the leading formula. After 4 hours in the sun, their skin is evaluated for any redness.	18 a new sunscreen developed that is supposed to be more effective at preventing sunburn	19 After 4 hours in the sun, their skin is evaluated for any redness	20 30 participants spray one arm with the new formula	21 leading formula spray on the other arm
A student wants to study the effect of sunlight on plant growth. In his experiment, 32 plants receive normal amounts of sunlight, but half of them are kept under bright sun lamps all night long. After 6 weeks, the plants' heights are measured.	22 plants half of them are kept under bright sun lamps all night	23 After 6 weeks, the plant's heights are measured	24 plants effect of sunlight	25 12 plants receive normal amounts of sunlight