Dependent Variable ↓ what you measure } Independent Variable ↓ what you change 10/2/18

NAME _____

Identifying Controls and Variables Review

Smithers thinks that a special juice will increase the productivity of workers. He creates two groups of 50 workers each and assigns each group the same task (in this case, they're supposed to staple a set of papers). Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Smithers counts how many stacks of papers each group has made. Group A made 1,587 stacks, Group B made 2,113 stacks.

Identify the:

1. Control Group - The group Group B without juice
2. Independent Variable
   The juice
3. Dependent Variable
   How many stacks of paper made
4. What should Smithers' conclusion be?
   The special juice does not help.
5. How could this experiment be improved?
   Give the other group a "placebo."

Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to check this out by spraying half of the shower with coconut juice. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.

6. What was the initial observation?
   Homer see a green slime in shower

Identify the-

7. Control Group
   The side sprayed with water
8. Independent Variable
   Coconut juice
9. Dependent Variable
   Amount of green slime remaining
10. What should Homer's conclusion be?
    Nothing worked on the slime.