

Scientific Method Worksheet

Smithers thinks that a special juice will increase the amount of work the office workers can do. He creates two groups of 50 workers each and assigns each group the same task (they will 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 following:

1. What question was Smithers trying to answer?
2. List the controlled variables in the experiment.
3. What is the Independent variable?
4. What is the dependent variable?
5. What is Smithers's conclusion? Use evidence to support.



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 question was Homer trying to answer?
7. What is the independent variable?
8. What is the dependent variable?
9. What is Homer's conclusion? Use evidence to explain.



Krusty was told that a certain itching powder was the newest best thing on the market; it even claims to cause 50% longer lasting itches. Interested in this product, he buys the itching powder and compares it to his usual product. One test subject (A) is sprinkled with the original itching powder, and another test subject (B) was sprinkled with the experimental itching powder. Subject A reported having itches for 30 minutes. Subject B reported having itches for 45 minutes.

10. What is the problem Krusty is trying to solve?

11. What is the independent variable?

12. What is the dependent variable?

13. Explain whether the data supports the advertisement's claims about its product.