

Simpson Experiment Sheet

Simpsons Variables Worksheet

Name:

Period:

Date:



Smithers thinks that a special juice will increase the productivity of workers. He creates three groups of 50 workers each and assigns each group the same task, to staple sets of papers.

Group 1 drinks 100mL of the special juice while they work.
Group 2 drinks 50mL of the special juice while they work.
Group 3 is not given the special juice while they work.

After an hour, Smithers counts how many sets of papers each group stapled. He made the data table below.

	Number of sets of paper stapled
Group 1	1,030
Group 2	1,700
Group 3	2,113

Identify the:

1. Independent Variable:

2. Dependent Variable:

3. Controlled variable:

4. What should Smithers' conclusion be? How did the juice affect the number of papers each group stapled? Use data (numbers) to support your answer.



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.

Identify the:

1. Independent Variable:

2. Dependent Variable:

3. What is a hypothesis Homer can write about his observation?

If
then
because



Krusty was told that a new itching powder 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.

Another test subject (B) was sprinkled with the new experimental itching powder. His

results are below.

	Number of minutes itched
Subject A	30 minutes
Subject B	45 minutes

Identify the:

1. Independent Variable:

2. Dependent Variable:

3. What should Krusty's conclusion be? Use data (numbers) to support your answer.

5. How could Krusty improve his experiment?

Simpson (Mr. Smithers)

- 1) Independent Variable → The amount of Juice
- 2) Dependent Variable → Number of sets of Paper Stapled.
- 3) Controlled →
 - 50 people in all 3 groups
 - Same task of stapling paper
- 4) Group 3, who had no juice, stapled the most papers. Group 1, who had the most juice, stapled the least amount of papers.

My conclusion is the more juice you drink, the slower you staple paper.

Attachments

Unit 1 Space Test Outline.notebook

Simpson Variables of experiments worksheet.docx

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