Oct.

Remember

1) **Independent variable** is the *one* that is changed by the scientist.

2) Dependent variables are the things that the scientist observes . MEASURE

3) **Controlled variables** are items that a scientist has to keep the same

Simpson Experiment Sheet

Name:
Period: Date:

Simpsons Variables Worksheet

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

Most Drink
50mL Drink
No Drink

The more Special Juice you drink the less papers you staple.

Identify the:
1. Independent Variable: Amount of Special Juice
2. Dependent Variable: Papers stapled
3. Controlled variables: 50 people in each group gave everyone same Job.
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.

Smithers hypothesis was incorrect. We see the more Juice a person drink the less productive they are.

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.

Conclusion: Coconut Juice doesn't get rid of green Slime.

Identify the:
1. Independent Variable: $\frac{1}{2}$ with Coconut Juice
$\frac{1}{2}$ with no Juice
2. Dependent Variable:
↳ Green slime or no slime
3. What is a hypothesis Homer can write about his observation?

If I put coconut Juice on shower then green slime won't form because Barney said so.

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

Old
New
shorter
longer

Identify the:
1. Independent Variable: The itching powder
2. Dependent Variable: # of min itched
3. What should Krusty's conclusion be? Use data (numbers) to support your answer.

Krusty should conclude that the new powder causes people to itch longer.

5. How could Krusty improve his experiment?
→ Make sure you use the same amount
→ try it on more people.

Attachments

Unit 1 Space Test Outline.notebook

Simpson Varibles of experiments worksheet.docx

SCIENCE PRACTICE ASSESSMENT - Grade 6.pdf

SCIENCE PRACTICE ASSESSMENT ASD-W - Grade 6.pdf