

Exercise 1: Scientific Method

Learning Objectives:

- Develop productive observations, questions, and hypotheses.
- Calculate the range, mean, and standard deviation.
- Design and conduct a controlled experiment to test a null hypothesis.

You notice that a population of plants growing in one area was greener and more robust than a population growing in another area. Subsequent analyses of the soils in the two areas indicated that the soil in the second area had less magnesium in it.



Write a logical scientific question that could be tested under controlled conditions.

Will fertilized soil with more nutrients give way to better, more robust plants than if they were placed in unfertilized, less nutrient carrying, soil.

Write a null hypothesis (H_0).

Type of soil does not affect plant growth

Write one alternative hypothesis (H_a)

Type of soil affects plant growth



Smithers from the Simpsons

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 produced a mean number of stack of stacks 31.7 (standard deviation = 12.0). Group B produced a mean of 42.3 stacks (standard deviation = 14.0).

What is Smithers' control group?

Smithers' control group is group A, the group that did not take the special group.

What is Smithers' experimental group?

Group B, the group who was given the special juice.

What is the independent (test) variable in this experiment?

The independent test variable in this experiment is the special juice.

What is the dependent (response) variable in this experiment?

The dependent response variable in this experiment is the amount of papers stapled.

How many replicates did each group have?

There were 50 replicates per group because there were 50 workers per group.

Which group showed more variability? How do you know?

The group that showed more variability is Group B because the mean and standard deviation is greater

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