

August 5, 2019

1. Signed Syllabus

2. Roommate Dilemma w/Partner

"Are you taking any foreign language classes this year?"

"Yes, Math."



someecards
user card

Topic: Experiments

Date: _____

What am I learning today?

**Main Ideas/
Questions**
Vocabulary

Notes

Descriptions	
Experiment	Deliberately imposes a <u>treatment</u> on individuals in order to observe their responses. The purpose of an experiment is to study whether the treatment causes a change in response.
Treatment	Anything that a researchers administers to individuals in order to change their response

Observational
Studies
VS.
Experiments

What is the difference between observational studies and experiments?

Example 1: Give an example of a question about dogs and their behavior that would best be answered by an...

A. Observational Study

B. Experiment

Example 2: A study for cell phones and the negative affects of test scores looked at a group of 400 high school students who took Statistics and had a Smartphone. The investigators matched each HS student with a person of the same sex, age, and race, but one of them did not own a Smartphone.

Result: "Our data suggests that having a Smartphone negatively impacts student test scores since they tend to be distracted more."

Is this an observational study or experiment? Why?

Summary
Summarize the lesson in your own words (this is to help you review later)

Activity:

See no evil, hear no evil?

Warm-Up

1.7a) A furniture maker buys hardwood in large batches. The supplier is supposed to dry the wood before shipping (wood that is not dry won't hold its size and shape). The furniture maker chooses five pieces of wood from each batch and tests their moisture content. If any piece exceeds 12% moisture content, the entire batch is sent back.

Population:

Sample:

1.7b) An insurance company wants to monitor the quality of its procedures for handling loss claims from its auto insurance policy holders. Each month the company selects a sample from all auto insurance claims filed that month to examine the accuracy and promptness with which they were handled.

Population:

Sample:

1.8a) A business school researcher wants to know what factors affect the survival and success of a small business. She selects a sample of 150 restaurants from those listed in the phone book for a large city.

Population:

Sample:

1.8b) Your local television station wonders if its viewers would rather watch a local college basketball team play or an NBA game scheduled at the same time. It announces that it will show the NBA game and receives 89 calls asking that it show the local game instead.

Population:

Sample:

1.9) A truckload of apples arrives at an apple juice production plant. The plant's quality control team selects three large buckets of apples from various locations within the truck. These apples are inspected carefully. Based on inspection results, the entire truckload is either accepted or rejected by the plant. Identify the population, sample, individuals and variable(s).

Population:

Sample:

Individuals:

Variables:

Practice

Starts on PG. 9

Problems #1.7-1.9

Add to PG 5 exercises - Turn in when finished