Statistics

Chapter 1 Quiz

Identify the population and the sample in the following study.

- A study of 254 patients with sleep disorders was conducted to find a link between obesity and sleep disorders.

A parameter is a numerical measure that describes a sample characteristic.

1. True
✔ 2. False

0%   0%

1   2

In a survey of a sample of parents, 53% said they protect their children from sun exposure using sunscreen. Determine whether the numerical value is a …
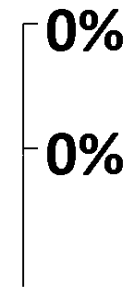
1. Parameter
2. Statistic

0%   0%

1   2

In a union's vote, 67% of all union members voted to ratify a contract proposal. Determine whether the numerical value is a …

1. Parameter
2. Statistic

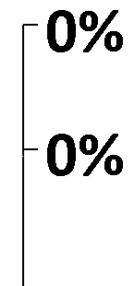0%   0%

1   2

A database of student identification numbers. This data is an example of...

1. Qualitative data
2. Quantitative data

0%

0%

1 2

The test scores in a statistics class. This data is an example of...

1. Qualitative data
2. Quantitative data

0%

0%

1 2

Ordinal data represent the highest level of measurement.

1. True
✔ 2. False

0%   0%

1   2

A list of the uniform numbers retired by each major league baseball team is an example of which level of measurement?

0% ⭐ 1. Nominal

0%   2. Ordinal

0%   3. Interval

0%   4. Ratio

The number of products sold by a toy manufacturer each quarter for the current fiscal year is an example of which level of measurement?

0%   1.   Nominal

0%   2.   Ordinal

0%   3.   Interval

0%   ⭐ 4.   Ratio

The high temperatures in Philadelphia for each day in the month of July is an example of which level of measurement?

0%   1. Nominal

0%   2. Ordinal

0%   ⭐ 3. Interval

0%   4. Ratio

Fastest Responders (in seconds)

Which data collection would you use to gather data for a study on the effect of low dietary intake of vitamin C and iron on lead levels in adults.

1. Observational study
2. Simulation
3. Experiment
4. Survey

0%   0%   0%   0%

1   2   3   4

Which data collection would you use to gather data for a study of the ages of people living within 500 miles of your home.

1. Observational study
2. Simulation
3. Experiment
4. Survey

0%   0%   0%   0%

1   2   3   4

Which sampling technique was used if a journalist goes to a beach to ask people how they feel about water pollution.

1. Random
2. Stratified
3. Cluster
4. Systematic
5. Convenience

0%

Which sampling technique was used if for quality assurance, every fifth engine part is selected from an assembly line and tested for durability.

1. Random
2. Stratified
3. Cluster
4. Systematic
5. Convenience

0%

1 2 3 4 5

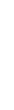# Which sampling technique was used if a student body is divided by class, then a random sample is selected from each class and interviewed.

1. Random
2. Stratified
3. Cluster
4. Systematic
5. Convenience

0%

1 ■ 2 ■ 3 ■ 4 □ 5

Which sampling technique could lead to a biased study?

1. Random
2. Stratified   **0%**
3. Cluster
4. Systematic
5. Convenience

1 2 3 4 5

Homework:

- STUDY FOR YOUR CHAPTER 1 TEST TOMORROW!
- Items not covered in this Review:
  - Descriptive vs Inferential Statistics
  - Biased questions or statements

YOU CAN DO IT!