MS 204 In-class Problems

August 19, 2025

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Chapter 1 Section 1

Determine whether the statement describes a population or a sample.

The price of homes of all the employees at a software company.

▶ Population
▶ Sample

Determine whether the statement describes a population or a sample.

The heights of 5 out of the 32 eggplant plants at Mr. Lonardo's greenhouse.

- ▶ Population
- ▶ Sample

IDENTIFY THE **population** BEING STUDIED.

The number of times 10 out of 20 students on your floor order pizza in a week.

- ▶ The 20 students on your floor.
- ▶ All students who ordered pizza in a week.
- ▶ The 10 students on your floor.

Determine whether the statement describes a descriptive or inferential statistic.

A recent poll of 1443 luxury car owners in West Virginia showed that the average price of a luxury car in the U.S. is $48,900.

- ▶ Descriptive Statistic
- ▶ Inferential Statistic

Determine whether the statement describes a descriptive or inferential statistic.

The average price of a car at the new car dealership in town is $28,400.

- ▶ Descriptive Statistic
- ▶ Inferential Statistic

DETERMINE IF THE NUMERICAL VALUE DESCRIBES A POPULATION PARAMETER OR A SAMPLE STATISTIC.

A recent poll of 2935 corporate executives showed that the average price of their cars is \$27,100.

▶ Population Parameter
▶ Sample Statistic

Determine if the numerical value describes a population parameter or a sample statistic.

The average price of a house in the new subdivision is \$339,000.

- ▶ Population Parameter
- ▶ Sample Statistic

IDENTIFY THE SAMPLE CHOSEN FOR THE STUDY.

The number of times 4 out of 37 students on your floor order take-out in a week.

▶ The 4 students on your floor.

▶ All students who ordered take-out in a week.

▶ The 37 students on your floor.

Chapter 1 Section 2

Types of cars people own are an example of which type of data?

- ▶ Qualitative
- ▶ Quantitative
- ▶ Inferential
- ▶ Statistic

Football jersey numbers are an example of which type of data?

- ▶ Qualitative
- ▶ Quantitative
- ▶ Inferential
- ▶ Statistic

Goals scored during a soccer game are an example of which type of data?

▶ Qualitative

▶ Quantitative

▶ Inferential

▶ Statistic

INDICATE THE LEVEL OF MEASUREMENT FOR THE DATA SET
DESCRIBED.

Monthly amounts of rain in Seattle over 10 years

- ▶ Interval
- ▶ Ratio
- ▶ Ordinal
- ▶ Nominal

INDICATE THE LEVEL OF MEASUREMENT FOR THE DATA SET DESCRIBED.

Categories of hurricanes that have hit the Atlantic coast

▶ Interval

▶ Ratio

▶ Ordinal

▶ Nominal

Classify data as discrete or continuous

Lengths of time it takes for new light bulbs to burn out are an example of which type of data?

- ▶ Discrete
- ▶ Continuous
- ▶ Neither

Classify data as discrete or continuous

Types of movies people go to see are an example of which type of data?
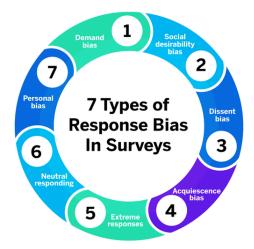
▶ Discrete

▶ Continuous

▶ Neither

Classify data as discrete or continuous

The numbers of each color of jelly beans in a jar (assuming they are all whole) are an example of which type of data?

► Discrete
► Continuous
► Neither

Chapter 1 Section 4

What is response bias and how can you avoid it?*

*This webpage seems to explain each type well, but I didn't read every sentence. I mainly put the link here for attributive purposes.