

Evaluate the representativeness of a sample

1

Simple random sampling

- A Survey every 20th customer entering a grocery store.
- B Randomly choose 500 households from the city's property database.
- C Select five schools at random and survey every teacher in those schools.
- D Select athletes from each sport so every sport is proportionally represented.

2

Survey people walking through a city park during your lunch break.

- A Stratified sampling
- B Simple random sampling
- C Convenience sampling
- D Systematic sampling

3

Goal: Average grocery spending per household Sampling approach: Survey shoppers at a discount grocery store

- A Selection bias
- B Measurement bias
- C Voluntary response bias
- D Response bias

4

Sample: 2,500 people who responded to an online election poll

- A All eligible voters in a province
- B People motivated to participate in online political polls

5

Population: All hospital patients in Canada Sample: 2,000 patients admitted through emergency departments

- A No, it is not representative of the population
- B Yes, it is representative of the population

6

Population: All subscribers to a streaming service

- A 5,000 subscribers who watched at least 20 hours last month
- B 5,000 subscribers randomly selected from the subscriber database

7

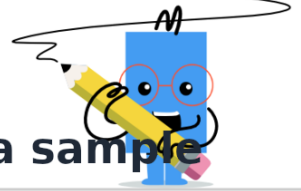
Population: All employees at a large company Sample: 300 employees attending the annual staff conference

- A Yes, it is representative of the population
- B No, it is not representative of the population

8

Population: All passengers using a city's public transit system

- A 1,000 passengers travelling during weekday rush hour
- B 1,000 passengers randomly surveyed on different routes and at different times



Evaluate the representativeness of a sample

9

Population: All eligible voters in a province
Sample: 2,500 people who responded to an online election poll

A

Yes, it is representative of the population

B

No, it is not representative of the population

10

Population: All lakes in a province

A

150 lakes randomly selected from across the province

B

150 lakes with public boat launches

11

Population: All eligible voters in a province
Sample: 2,500 voters randomly selected from the provincial voter registry

A

Yes, it is representative of the population

B

No, it is not representative of the population

12

Population: All restaurants in a city

A

250 restaurants that offer food delivery

B

250 restaurants randomly selected from the city's business registry