

Identifying Populations and Samples

1. In the United States, a survey of 1152 adults ages 18 and over found that 403 of them pretend to use their smartphones to avoid talking to someone.
 - a) What is the population?
 - b) What is the sample?
2. In a school district, a survey of 1300 high school students found that 1001 of them like the new, healthy cafeteria food choices.
 - a) What is the population?
 - b) What is the sample?

Determine whether the data are collected from a population or a sample. Explain your reasoning.

3. The number of high school students in the United States
4. The color of every third car that passes your house

Determine whether the numerical value is a parameter or a statistic.

5. The average annual salary of some physical therapists in a state is \$76,210.
6. In a recent year, 53% of the senators in the United States Senate were Democrats.

See if you can answer this challenging question!

7. On July 8th, 2004, the U.S. Census Bureau reported on their "population clock" that the population of the United States was 293,683,456 people. The National Endowment of the Arts conducted a survey – titled "Reading at Risk" – on the reading habits of approximately 17,000 adults. Of those surveyed, only 57% read a book in 2002.
 - a) What is the population under investigation?
 - b) What is the parameter of interest?
 - c) What is the sample?

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d) What is the sample statistic?