

## 10-2 Populations and Sample

\_\_\_\_\_ - Group about which info is gathered.

\_\_\_\_\_ : Collection of data from a whole population rather than just a sample.

- Example: surveying travel time by asking everyone at school is a **census** (of the school). ... but asking only the first 50 people you meet is a **sample**.

\_\_\_\_\_ - When part of a population is chosen to get information about the whole population

\_\_\_\_\_ : To gather information by individual *samples* so as to learn about the whole thing.

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### Characteristics:

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- A \_\_\_\_\_ is a characteristic of a population.
  - For example, say you want to know the mean income of the subscribers to a particular magazine—a parameter of a population.
- A \_\_\_\_\_ is a characteristic of a sample.

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### Sampling Methods Video:

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1. Who uses statistics? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
2. What is the purpose of statistics?
3. When a people have a strong preference for \_\_\_\_\_, we say they are \_\_\_\_\_ toward that point of view.
4. When people present or interpret data in a \_\_\_\_\_ way to achieve a particular purpose, we say they are \_\_\_\_\_ data.
5. What are the two ways data can be manipulated? \_\_\_\_\_, \_\_\_\_\_
6. What was Makaha researching?
7. What questions should be asked before collecting data?
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_

8. Data that is not biased is fair to \_\_\_\_\_.
9. Who were the people affected by the school uniforms? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
10. Your survey needs to be \_\_\_\_\_ of the population
11. The rules of sampling are:
1. The sample must be \_\_\_\_\_
    - i. About what percentage of the population should you include in your survey? \_\_\_\_\_
  2. Ensure that each group is \_\_\_\_\_
  3. The ideal sample size depends on how many \_\_\_\_\_ groups of people with \_\_\_\_\_ expected responses there are in the \_\_\_\_\_
12. Why couldn't Makaha ask only his friends about uniforms?
13. Describe two examples of collecting data randomly shown in the video.
14. When using a representative sample you should:
1. Choose an appropriate \_\_\_\_\_
  2. Use a \_\_\_\_\_ if there are identifiable groups in the population
  3. Select a \_\_\_\_\_ sample.

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#### Types of Samples review

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- \_\_\_\_\_ - Consists of individuals from the population chosen in such a way that every set of individuals has an equal chance to be part of the sample actually collected.
  - \_\_\_\_\_ **does not fairly represent the population.**
  - A \_\_\_\_\_ is based on members of the population that are readily available. (Just passing by)
  - \_\_\_\_\_ consists of people who chose themselves.
- \*\*Often people that volunteer to respond to questions have strong opinions, often negative ones that may not represent the population well.