

## Data Collection

1. Answer each of the following questions with the Data collection method used
  - a. A researcher records the number of customers who enter a coffee shop each hour for two weeks without interacting with them.
  - b. Scientists test whether a new fertilizer increases plant growth by applying it to one group of plants and not to another.
  - c. Meteorologists use computer models to predict how a hurricane might change paths under different conditions.
  - d. A school emails students a questionnaire asking how many hours they study each week.
  - e. A wildlife biologist watches wolves in a national park and records their hunting behaviors.
  - f. A pharmaceutical company gives half of its volunteers a new drug and half a placebo to compare recovery rates.
  - g. Engineers create a virtual crash model to study how different car designs handle collisions.
  - h. A city asks residents to complete an online form about their public transportation usage.

- i. A teacher records how often students raise their hands during class over a month.
- j. A health department uses a computer program to imitate the spread of a disease through a population.