# Mathematics and data analysis Summary- Chapter 3

**Available data** are data that were produced in the past for some other purpose but that may help answer a present question.
The library and the Internet can be good sources of available data. Because producing new data is expensive, we all use available data whenever possible.

## Obtaining data

**Anecdotal evidence** is based on haphazardly selected individual cases, which we tend to remember because they are unusual in some way. They also may not be representative of any larger group of cases.

Some questions require data produced specifically to answer them. This leads to designing observational or experimental studies.

**Observational study:** Record data on individuals without attempting to influence the responses.

**Experimental study:** Deliberately impose a treatment on individuals and record their responses. Influential factors can be controlled.

### Observation versus Experiment

In an **observational study** we observe individuals and measure variables of interest but do not attempt to influence the responses.
In an **experiment** we deliberately impose some treatment on individuals and we observe their responses.

- Observational studies are essential sources of data on a variety of topics.
  However, when our goal is to understand **cause and effect**, experiments are the only source of fully convincing data.
- Two variables are **confounded** when their effects on a response variable cannot be distinguished from each other.
- Well-designed experiments take steps to defeat confounding

## 3.1 Designing samples

Time, cost, and inconvenience forbid contacting every individual. In such cases, we gather information about only part of the group—a sample—in order to draw conclusions about the whole.
**Sample surveys** are an important kind of observational study.

**Census**, is an attempt to contact every individual in the entire population

## Population and Sample

The entire group of individuals that we want information about is called the **population**.
A **parameter** is a number describing a characteristic of the **population**.

A **sample** is a part of the population that we actually examine in order to gather information.
A **statistic** is a number describing a characteristic of a **sample**

- A list of items to be sampled is often called a **sampling frame**.

# Chapter 3 Data Analysis 3 1 Track Data

**Richard Bailey**

**Chapter 3 Data Analysis 3 1 Track Data:**

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