## Why estimation?

## Two reasons:

- Infinite populations → incapable of complete examination
- Finite populations → cost, time

In addition, estimation can help not to defer a conclusion, until the entire population has been observed

## Parameters to be estimated?

- Population mean
- The difference between 2 means
- Population proportion
  The difference
  - The difference between 2 proportions
- Population variance
- The ratio of 2 variances

## Estimation vs. Hypothesis Testing

- 1. The differences between these two procedures?
- 2. Pros & Cons of these two procedures?

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