

## Chapter 3: Descriptive Statistics Numerical Measures

### Measures of Location (Central Tendency)

The central tendency of a distribution is an estimate of the "center" of a distribution of values. There are three major types of estimates of central tendency the **mean**, the **median** and the **mode**.

#### 1. The Mean

- ❖ The (arithmetic) mean or the average is probably the most commonly used method of describing central tendency.
- ❖ The mean of a **sample** is denoted by  $\bar{x}$  (it is read "x bar"), it is an example of **statistic**.
- ❖ The mean of a **population** is denoted by  $\mu$  (it is read "mu"), it is an example of **parameter**.
- ❖ The mean of a sample data with  $n$  items is given by:

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

- ❖ The mean for a population data with  $N$  items is given by:

$$\mu = \frac{\sum_{i=1}^N x_i}{N} = \frac{x_1 + x_2 + \dots + x_N}{N}$$

#### Example 1

Find the mean of the following sample data:

4 6 8 10 12 14 16

#### Solution

$$\begin{aligned}\bar{x} &= \frac{\sum x}{n} = \frac{4+6+8+10+12+14+16}{7} \\ &= \frac{70}{7} \\ &= 10.\end{aligned}$$

#### 2. The Median

- ❖ Another measure of central tendency is the median.
- ❖ The **median** is the value found at the **middle** of the set of values that has been arranged in an increasing order.

# Chapter 3 Descriptive Statistics Numerical Measures

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