Learning Objectives:
1. Find the mean of a list of numbers.
2. Find the median of a list of numbers.
3. Find the mode of a list of numbers.

1. Finding the Mean

Definitions:
Mean—is the sum of the items divided by the number of items.

\[
\text{Mean} = \frac{\text{sum of items}}{\text{number of items}}
\]

Steps of finding the mean—Add all numbers and divide by the number of the elements.

Example 1. Find the mean of the following numbers: 1, 9, 27, 81, 243 and 3.

2. Finding the Median

Definitions:
Median—is the middle number. If the number of items is odd, the median is the middle number. If the number of items is even, the median is the mean of the two middle numbers.

Steps of finding the median:
1. Write numbers from the smallest to largest.
2. The median is the middle number.
3. If there is no middle number, then the median is the average of two middle numbers.

Example 2. Find the median of the following numbers.

1. 1, 27, 8, 125, 64
2. 1, 3, 27, 81, 9, 243
3. **Finding the Mode**

**Definitions:**

*Mode*—is the numbers that occurs most often. It is possible for a set of numbers to have more than one mode or to have no mode.

**Steps of finding the Mode:**

1. The mode is the number that occurs most often.
2. In the set, we can have more than one mode.
3. If there is no number that occurs most often, then the set has no mode.

**Example 3.** Find the mode(s) of the following numbers if there is one.

1. $29, 25, 22, 25, 52, 8$

2. $2, 8, 8, 1, 2, 8, 2$