*Unit 1 Learning Targets:*

*LT 1: SWBAT describe the change in mean, median, mode, and range when a data set is manipulated.*

*LT 2: SWBAT find and compare the mean, median, mode, and range for multiple data sets.*

Algebra OPFI Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 1: Statistics**

 **Final Exam Review**

*Success Criteria*

1. Range \_\_\_\_\_\_\_\_

2. Mode \_\_\_\_\_\_\_\_\_

3. Median \_\_\_\_\_\_\_\_

4. Mean \_\_\_\_\_\_\_\_

A. The sum of the data divided by the number of data values. Is represents by the symbol$\overbar{ x}$. It is read “x bar”.

B. The difference between the greatest values and the least values.

C. The value or values that occur the most often. There may be one, none, or more than one.

D. The middle number when the values are written in numerical order. When a data set has an even number of values, it is the mean of the two middle values.

Example 1: Find the mean, median, mode, and range of the following.

**59, 75, 60, 48, 56, 78, 60, 57, 54, 59**

*Mean: Median: Mode: Range:*

Example 2: Find the missing value of x if you know that the mean is 5

**8, 5, 3, 7, x**

You Try: Find the missing value of x if you know that the mean is 4

**3, 2, 1, 5, 6, x**

Practice: For # 1 – 4 Find the mean, median, mode, and range.

1. **30, 40, 50, 35, 30**

 *Mean: Median: Mode: Range:*

2. **7, 4, 1, 3, 10, 8**

*Mean: Median: Mode: Range:*

3. **7, 2, 1, 7, 6**

*Mean: Median: Mode: Range:*

4. **21, 18, 16, 15, 15, 10**

*Mean: Median: Mode: Range:*

5. Find the missing value of x if you know that the mean is **7**

**10, 5, 7, 3, x**

6. Find the missing value of x if you know that the mean is 18

**20, 15, 30, 15, x**