# **Unit 10 Objective 4 Remediation**

#### Find the Median of Data

The **MEDIAN** of a data set is the middle number in the set when the elements are placed in numerical order.

## **How to Find the Mode:**

- Put the data in order from least to greatest
- Find the middle of the data:
  - o If there is an odd number of elements → median will be the middle number
  - o If there is an even number of elements → median will be the average of the two middle numbers

## **Examples:**

1.) The following are student test scores on a recent test given in Mrs. Brodbeck's math class.

86 82 93 76 68 81 82 90 75 74

Find the median of the test scores.

Step 1 – Order the data from least to greatest

68 74 75 76 81 82 82 86 90 93

**Step 2** – Start at the ends, start crossing of numbers at each end until you have reached the middle:

Since there is an even number of elements, we must find the average of the two middle numbers:

$$\frac{81 + 82}{2} = 81.5$$

#### The median of the data is 81.5

2.) Find the median of the following data set:

3 8 4 12 16 5 9 13 20

**Step 1** – Order the data from least to greatest:

3 4 5 8 9 12 13 16 20

**Step 2** - Start at the ends, start crossing of numbers at each end until you have reached the middle:

3 A 8 8 (9) 12 13 16 20

Since there is an odd number of elements, the median is the middle number.

1.) The daily sales of a convenience store in a week:

\$834 \$1099 \$765 \$930 \$900 \$950

Find the median of the daily sales. Median = \_\_\_\_\_

2.) The ACT scores of 8 students:

18 30 22 20 28 20 22 22

Find the median of the ACT scores of the student. Median =

3.) Number of points scored in last season's football games:

0 14 3 14 20 21 28 10 17

Find the median of the scores. Median =

4.) Gallons of gas put into a car per week for the past few weeks:

11.5 13.2 14.6 7.3 14.9 12.4 11.1 9.8 10.8

Find the median of the gallons of gas for the weeks. Median =

5.) The chart below shows the number of accidents by month.

Accidents by Month											
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
3	6	1	0	2	6	2	3	3	4	1	2

Find the median number of accidents each month. Median =