

Worksheet 10-3 - PreAlgebra

Mean Absolute Deviation

Find the mean and the mean absolute deviation of each data set.

1. 6 8 0 5 1 Mean of this data = _____

Now subtract the mean from each data item and list the absolute value.

Find the mean for this data:
This is the MAD

MAD = _____

2. 26 13 23 20 10 -4 -2 15 7

3. 7.3 0.1 9.5 4.5 -5 -1 2 1

4. The number of fish in 7 aquariums is 4, 9, 15, 8, 7, 3 and 10. Find the mean absolute deviation. Round to the nearest hundredth. Describe what the mean absolute deviation represents.

5. The populations for the five largest Florida cities are shown in the table to the right. Find the mean and the mean absolute deviation (rounded to the nearest whole number). Describe what the mean absolute deviation represents.

City	Population
Jacksonville	821,784
Miami	399,457
Tampa	335,709
St. Petersburg	244,769
Orlando	238,300

6. The prices for a gallon of regular gasoline at six area gas stations are listed below. Find the mean absolute deviation (rounded to the nearest cent). Describe what the mean absolute deviation represents.
- \$3.59 \$3.79 \$3.74 \$3.57 \$3.83 \$3.62

7. The dot plots below show the top ten test scores for each of Mrs. Winthrop’s Period A and Period B science classes. **Predict** which data set has a smaller mean absolute deviation. Justify your answer.

