**Classwork: Mean, Median, Mode, and Range**

1. The prices of slacks in five different stores are $29.95, $31.50, $25.45, $33.49, and $28.49. Find the mean price of slacks. What is the range in prices?
2. Shane bowled 5 games, and his scores were 147, 134, 157, 123, and 140. Find his mean and median bowling scores. Which best describes his bowling scores, the mean or median? Explain your choice.
3. Olivia swims the 50-yard freestyle for the Mud Dogs swim team. Her times in the last five meets were 26.89 seconds, 26.27 seconds, 25.63 seconds, 27.16 seconds, and 27.18 seconds. Find the mean and median of her swimming times. Which measure of central tendency best describes her swimming time? Explain.
4. In a basketball game between Kennedy High School and Lincoln High School, the Lincoln players’ individual points were 23, 4, 6, 11, 4, 8, 12, 3, and 5. Find the mean, median, and mode of the individual points. Which measure of central tendency best describes the number of points scored? Explain.
5. The mean value of a set of five numbers is 26. What would the mean be if one numbers was increased by 10?
6. On a fishing trip, Ella caught 6 bass with a mean weight of 1.5 pounds and 4 pike with a mean weight of 3.5 pounds. What was the mean weight, in pounds, of all the fish Ella caught?
7. A student had taken six tests and received scores of 80, 75, 66, 85, 70, 81 The seventh test was coming up and the student wanted to know what was needed on the seventh test to have a mean score of 80. Find the seventh test score.
8. The mean of Tom’s scores on 5 tests was 77.4%. The scores on his first four tests were 88, 77, 70, and 72. What was Tom’s score on his fifth test?

**Mean, Median, Mode Homework—Show all work on Notebook Paper**

For each set of data, determine which measure of central tendency best represents the data. Explain your answer.

1. 38, 35, 40, 36, 33, 42, 37, 39, 34
2. 100, 106, 180, 41, 161, 292, 116, 213

Find the range of the following sets of data.

1. 110, 114, 104, 108, 106
2. 50.8, 51.6, 51.9, 52, 52.5, 52.8, 53.1
3. **Bean Plants** The height in inches of eight bean plants are 28, 36, 41, 50, 35, 42, 46, and 52.
4. What is the range of bean plant heights?
5. Find the mean, median, and mode of the bean plant heights.
6. Which measure of central tendency best represents the data? Explain.

**Hotel**

1. **Hotel Stay** You are planning a trip to Washington, D.C. and are looking up hotel room rates. On the Internet, you find the following rates for a one-night stay in a hotel in Washington, D.C.

$109, $126.50, $ 175.95, $139, $77.50, $145, $162.35, $173, $181.50, $105

* 1. Find the mean, median, and mode of the hotel rates.
	2. Which measure of central tendency best represents the data? Explain.
1. **Temperature** The high and low temperatures for the last seven days are given.

High Temperatures: 81, 78, 83, 89, 90, 87, 89

Low Temperatures: 64, 53, 62, 66, 68, 69, 67

* 1. Find the mean, median, mode, and range of each data set. Round to the nearest tenth.
	2. For each data set, describe which measure of central tendency best represents the data. Explain.
	3. Compare the spreads of the data using the range.