Basic Statistics Worksheet

Part 1: Mean, Median, and Mode

1. **Find the Mean, Median, and Mode:**

   o **Data Set 1:** 12, 15, 13, 16, 15, 14, 15

      ▪ **Mean:**

      ▪ **Median:**

      ▪ **Mode:**

   o **Data Set 2:** 8, 9, 11, 10, 12, 13, 11, 10

      ▪ **Mean:**

      ▪ **Median:**

      ▪ **Mode:**

2. **Word Problem:**

   o The scores of 5 students in a mathematics test are: 85, 90, 78, 92, and 88.

      ▪ Calculate the mean, median, and mode of the test scores.

Part 2: Range and Standard Deviation

3. **Calculate the Range:**

   o **Data Set 1:** 23, 29, 21, 27, 25

      ▪ **Range:**

   o **Data Set 2:** 45, 50, 52, 48, 49, 51

      ▪ **Range:**

4. **Find the Standard Deviation:**

   o **Data Set:** 10, 12, 9, 14, 11

      ▪ **Mean:**

      ▪ **Variance:**

      ▪ **Standard Deviation:**

Part 3: Frequency Tables and Graphs

5. **Create a Frequency Table:**

   o The number of books read by students in a class are: 3, 2, 4, 5, 3, 2, 3, 4, 5, 4, 2.

      ▪ **Frequency Table:**

Number of Books	Frequency
2	
3	
4	
5	

6. **Construct a Bar Graph:**

   o Use the frequency table from question 5 to create a bar graph.

Part 4: Interpretation

7. **Interpreting Data:**

   o **Data Set:** 16, 18, 20, 22, 24

      ▪ Describe the distribution of the data. Is it skewed, or is it symmetric?

8. **Word Problem:**

   o The following are the number of hours students spend studying per week: 5, 7, 6, 9, 10, 6, 5, 8, 7.

      ▪ Determine the mean, median, and range. What can you infer about the students' study habits?