

## Mean Median Mode And Range Worksheets

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### Part 1: Building a Foundation

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**What is the mean of the following data set: 4, 8, 6, 5, 3?**

*Hint: Calculate the average of the numbers.*

- A) 4
- B) 5.2
- C) 6
- D) 5

**Which of the following statements are true about the median?**

*Hint: Consider the properties of the median in a data set.*

- A) It is always one of the numbers in the data set.
- B) It can be affected by outliers.
- C) It is the middle value when data is ordered.
- D) It is the most frequently occurring number.

**Explain how you would find the mode of a data set. Provide an example with your explanation.**

*Hint: Consider how often each number appears.*

**List the steps to calculate the range of a data set.**

*Hint: Think about the highest and lowest values.*

1. Step 1

2. Step 2

3. Step 3

## Part 2: Comprehension and Application

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**If the data set is 3, 7, 7, 9, 10, what is the mode?**

*Hint: Look for the number that appears most frequently.*

- A) 3
- B) 7
- C) 9
- D) 10

**Which of the following are necessary to calculate the mean of a data set?**

*Hint: Consider what information is needed for the calculation.*

- A) Total sum of all data points
- B) Number of data points
- C) The highest and lowest values
- D) The frequency of each data point

**Describe a scenario where the median would be a better measure of central tendency than the mean.**

*Hint: Think about data sets with extreme values.*

**A student scored 85, 90, 78, and 92 on four tests. What score must they achieve on the fifth test to have an average of 88?**

*Hint: Use the average formula to find the missing score.*

- A) 91
- B) 95
- C) 89
- D) 90

**Given the data set 12, 15, 15, 17, 20, which of the following are correct calculations?**

*Hint: Calculate the mean, median, mode, and range.*

- A) Mean is 15.8
- B) Median is 15
- C) Mode is 15
- D) Range is 8

**Calculate the mean, median, mode, and range for the following data set: 10, 12, 12, 14, 16, 18.**

*Hint: Perform calculations for each measure of central tendency.*

### Part 3: Analysis, Evaluation, and Creation

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**In a data set, if an outlier is removed, which measure is most likely to change significantly?**

*Hint: Consider how outliers affect different measures.*

- A) Mean
- B) Median
- C) Mode
- D) Range

**Analyze the following data set: 5, 7, 7, 8, 10, 10, 10, 12. Which of the following are true?**

*Hint: Calculate the mean, median, mode, and range to analyze the data.*

- A) The mode is 10
- B) The median is 8.5
- C) The range is 7
- D) The mean is 8.625

**Discuss how the mean and median would be affected if the highest value in a data set is increased significantly.**

*Hint: Consider the impact of extreme values on these measures.*

**Which measure of central tendency would you recommend for analyzing a data set with extreme outliers, and why?**

*Hint: Think about the stability of different measures.*

- A) Mean
- B) Median
- C) Mode
- D) Range

**Create a data set of five numbers where the mean is 10, the median is 9, and the mode is 8. Which of the following could be part of your data set?**

*Hint: Consider how to arrange the numbers to meet these criteria.*

- A) 8
- B) 9
- C) 10
- D) 11

**Propose a real-world scenario where understanding the range of a data set is crucial. Explain how it impacts decision-making.**

*Hint: Think about situations where data variability is important.*