

Mean Median Mode Range Worksheet

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Part 1: Building a Foundation
What is the mean of the following set of numbers: 4, 8, 6, 5, 3?
Hint: Calculate the average of the numbers.
○ A) 5
O B) 6
O C) 4
○ D) 7
Which of the following statements are true about the median?
Hint: Consider the properties of the median in a dataset.
A) It is always one of the numbers in the dataset.
☐ B) It divides the dataset into two equal halves.
C) It is affected by extreme values.
D) It is the same as the mean in a symmetric distribution.
Explain what the mode of a dataset represents and provide an example.
Hint: Think about the most frequently occurring number.

List the steps to calculate the range of a dataset.



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Hint: Consider the highest and lowest values.
1. Step 1
2. Step 2
3. Step 3
Part 2: Interpreting Statistical Measures
Fait 2. Interpreting Statistical Measures
In a dataset of exam scores, which measure would best represent the typical score if there are a few extremely low scores?
extremely low scores? Hint: Consider which measure is least affected by outliers. A) Mean
extremely low scores? Hint: Consider which measure is least affected by outliers. A) Mean B) Median
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extremely low scores? Hint: Consider which measure is least affected by outliers. A) Mean B) Median C) Mode D) Range Which of the following datasets have a mode? Select all that apply. Hint: Identify the dataset with repeating values. A) 1, 2, 3, 4, 5
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Describe how outliers can affect the mean and median of a dataset.

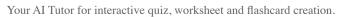
Hint: Consider the impact of extreme values on these measures.



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A) Median B) Mode C) Range D) None Even the dataset 5, 7, 7, 8, 10, 12, which measures are equal? Select all that apply. Int: Calculate the mean, median, and mode to find equal measures. A) Mean B) Median C) Mode
teacher calculates the average score of a class test as 75. If one student scored 100, which easure would likely be higher than the mean? Int: Think about the effect of a high score on the median. A) Median B) Mode C) Range D) None Wen the dataset 5, 7, 7, 8, 10, 12, which measures are equal? Select all that apply. Int: Calculate the mean, median, and mode to find equal measures. A) Mean B) Median C) Mode
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B) Median C) Mode
C) Mode
•
D) Range
alculate the mean, median, mode, and range of the following dataset: 15, 20, 20, 25, 30.
lint: Use the definitions of each measure to perform the calculations.

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In a dataset where the mean is significantly higher than the median, what can be inferred about the distribution?
Hint: Consider the implications of skewness in the data.
 A) It is symmetric. B) It is left-skewered. C) It is right-skewered. D) It has no skew.
Which of the following are true if a dataset has multiple modes? Select all that apply.
Hint: Consider the characteristics of multimodal datasets.
A) It is bimodal or multimodal.
B) The mean will be equal to the median.
C) The dataset has clusters of repeated values.D) The range will be zero.
Analyze the following dataset and explain which measure of central tendency is most appropriate: 2, 3, 4, 100.
Hint: Consider the impact of the outlier on the measures.
Part 4: Synthesis and Reflection
Which measure would you use to compare the consistency of two datasets with similar means but different ranges?
Hint: Consider which measure reflects variability.
A) Mean
O) Mada
○ C) Mode

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O) Range
When evaluating the performance of a sports team over a season, which measures could provide useful insights? Select all that apply.
Hint: Consider which measures reflect overall performance.
□ A) Mean score per game□ B) Median score per game□ O) Made of access
□ C) Mode of scores□ D) Range of scores
Create a real-world scenario where the median is a more appropriate measure than the mean, and explain why.
Hint: Think about situations with outliers.
Propose a method to visually represent the mean, median, mode, and range of a dataset and explain its benefits.
Hint: Consider graphical representations.
1. Method 1
2. Method 2
3. Method 3