

Mean Median Mode And Range Worksheets Questions and Answers PDF

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Part 1: Building a Foundation

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			
The mean is calculated by adding all the numbers and dividing by the count of numbers.			
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.			
The median is the middle value in an ordered data set and is not affected by outliers.			
Explain how you would find the mode of a data set. Provide an example with your explanation.			
Hint: Consider how often each number annears			



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І ті	he mode is the number that appears most frequently in a data set.
List 1	the steps to calculate the range of a data set.
Hint:	Think about the highest and lowest values.
1. Ste	ep 1
I	Identify the highest value.
2. Ste	ep 2
	Identify the lowest value.
3. Ste	ep 3
1 :	Subtract the lowest value from the highest value.
Th	he range is calculated by subtractin the smallest value from the largest value.
Dev	t O. Camprohanaian and Application
rari	t 2: Comprehension and Application

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



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Hint: Look for the number that appears most frequently.
○ A) 3
○ B) 7 ✓
○ C) 9
○ D) 10
The mode is the number that occurs most often in the data set.
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
To calculate the mean, you need the total sum of the data points and the number of data points.
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.
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I	To find the required score, set up the equation for the average and solve for the unknown.
Gi	ven the data set 12, 15, 15, 17, 20, which of the following are correct calculations?
Hi	nt: Calculate the mean, median, mode, and range.
	A) Mean is 15.8
	B) Median is 15 ✓
	C) Mode is 15 ✓
	D) Range is 8
	The calculations involve finding the average, middle value, most frequent number, and the difference between the highest and lowest values.
Ca	alculate the mean, median, mode, and range for the following data set: 10, 12, 12, 14, 16, 18.
Hi	nt: Perform calculations for each measure of central tendency.
I Pa	Calculate each measure based on the provided data set to understand its distribution. art 3: Analysis, Evaluation, and Creation
In	a data set, if an outlier is removed, which measure is most likely to change significantly?
	nt: Consider how outliers affect different measures.
	A) Mean ✓ B) Median
0	C) Mode
0	D) Range
	The mean is most affected by outliers, as it is sensitive to extreme values.



Analyze the following data set: 5, 7, 7, 8, 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
The analysis involves determining the correct values for the measures of central tendency.
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.
Increasing the highest value will likely raise the mean significantly, while the median may remain unchanged. 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) MeanB) Median ✓C) ModeD) Range
The median is recommended as it is less affected by extreme values compared to the mean.
Create a data set of five numbers where the mean is 10 the median is 9, and the mode is 8. Which of

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the following could be part of your data set?

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



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] A) 8 ✓	
B) 9 ✓	
C) 10 ✓	
D) 11	
The data set must be constructed carefully to satisfy all three conditions.	
ropose a real-world scenario where understanding the range of a data set is crucial. Explain h npacts decision-making.	ow it
int: Think about situations where data variability is important.	
	11
Understanding the range helps in assessing the spread of data, which is vital for informed	
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