

9 1 mean median mode and range

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Understanding Range, Mean, Median, and Mode**

Range

- Definition: The difference between the maximum and minimum values in a data set.
- Formula: $\text{Range} = \text{Maximum value} - \text{Minimum value}$

Mean

- Definition: The average of all values in a data set.
- Formula: $\text{Mean} = \frac{\text{Sum of all values}}{\text{Number of values}}$

Median

- Definition: The middle value of a data set when arranged in ascending or descending order.
- If there is an even number of values, the median is the average of the two middle values.

Mode

- Definition: The value that occurs most frequently in a data set.

How to Find Mean, Median, Mode, and Range

1. Sort the data set in ascending order.
2. Find the range.
3. Find the mean by adding all values and dividing by the number of values.

4. Find the median:

- If there is an odd number of values, the median is the middle value.
- If there is an even number of values, the median is the average of the two middle values.

5. Find the mode by identifying the value that occurs most frequently.

Examples

What is the range of 3 7 2 4 7 5 7 1 8 8?

- Range = $8 - 1 = 7$

What is the median of 1 2 3 4 5 6 7 8 9 and 10?

- Median = $(5 + 6) / 2 = 5.5$

What is the range of {(2 0 4 3 2 9 0 5 5 7)}?

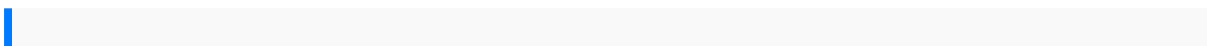
- Range = $9 - 0 = 9$

Which is the median 1 9 4 6 8 8?

- Median = 6

How to find the median of 4 5 9 2 6 8 7?

- Median = $(6 + 7) / 2 = 6.5$



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