

What is Mean, Median and Mode?

Worksheet

The mean ($\bar{x} = \frac{\sum x}{n}$) is the average of all values; the median is the middle value of sorted data; the mode is the value that appears most often.

Questions

1. What is the mean of 5, 10, 15, 20, 25?
A) 10
B) 15
C) 20
D) 75
2. What is the median of 3, 1, 4, 1, 5?
A) 1
B) 3
C) 4
D) 5
3. Which measure of central tendency can a data set have more than one of?
A) Mean
B) Median
C) Mode
D) Range
4. Which measure works best for skewed data with outliers?
A) Mean
B) Median
C) Mode
D) Standard deviation
5. Find the mean of these test scores: 70, 80, 90, 60, 100.
6. Find the median of the data set: 12, 4, 9, 7, 15.
7. Find the mode of the data set: 2, 3, 3, 5, 7, 3, 8.
8. Define: What is the mean?
9. Define: What is the median?
10. Define: What is the mode?

Answer Key

1. B) $15 - \text{Sum} = 75, 75/5 = 15$.
2. B) 3 - Sorted: 1,1,3,4,5 middle value = 3.
3. C) Mode - A data set can be bimodal or multimodal.
4. B) Median - The median resists the pull of outliers better than the mean.
5. $\text{Sum} = 70+80+90+60+100 = 400$ Mean = $400/5 = 80$
6. Sort: 4, 7, 9, 12, 15 Middle value (3rd of 5) = 9
7. Count frequencies: 21, 33, 51, 71, 81 Most frequent value = 3 mode = 3
8. The sum of all values divided by the count: $x = x/n$.
9. The middle value of sorted data; if the count is even, average the two middle values.
10. The value that appears most frequently in a data set.

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