Middle School Statistics Mastery

Mathematics · Answer Key · 15 Questions

1. Which measure of central tendency is calculated by adding all values in a data set and dividing by the total number of values?

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

2. In a data set, what is the value that appears most frequently?

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

3. What is the 'range' of a numerical data set?

A) The sum of all values
B) The difference between the maximum and minimum values
C) The middle value of an ordered set
D) The most common value

4. When a set of data is arranged in ascending order, what is the middle value called?

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

5. Which type of chart uses vertical bars to show the frequency of data within continuous intervals?

A) Pie chart
B) Line graph
C) Histogram
D) Pictograph

6. In a box plot, what does the 'box' typically represent?

A) The range of the entire data set
B) The interquartile range (IQR)
C) The mean value
D) The standard deviation

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7. What is the term for a data value that is significantly higher or lower than the rest of the data set?

A) Outlier
B) Average
C) Sample
D) Variable

8. Which graphical representation is best suited for showing trends or changes in data over a period of time?

A) Histogram
B) Dot plot
C) Line graph
D) Bar chart

9. If a data set has an even number of values, how is the median determined?

A) It is the larger of the two middle values
B) It is the mean of the two middle values
C) It is the range of the middle values
D) The median does not exist

10. In a stem-and-leaf plot, what does the 'stem' represent?

A) The individual data points
B) The frequency of each value
C) The leading digit or digits of the data values
D) The total number of values

11. Which graph uses circular sectors to represent proportions of a whole?

A) Scatter plot
B) Pie chart
C) Histogram
D) Stem-and-leaf plot

12. What does the 'Q3' (third quartile) represent in a data set?

A) The minimum value
B) The median of the lower half
C) The median of the upper half
D) The range of the data

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13. If every value in a data set is the same, what is the range of that data set?

A) 1
B) The value itself
C) 0
D) It cannot be determined

14. A 'frequency table' is used to record what?

A) The mean of a data set
B) The order of data points
C) The number of times each value occurs
D) The maximum value only

15. Which statistical term describes the spread of data around the mean?

A) Mode
B) Dispersion (Variability)
C) Median
D) Sample size