Elementary Statistics Mastery

Statistics · Answer Key · 18 Questions

1. Which statistical measure represents the middle value in a numerically ordered data set?

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

2. If a data set has two values that both appear with the highest frequency, what is the data set called?

A) Bimodal
B) Unimodal
C) Multimodal
D) Non-modal

3. Which term describes the difference between the maximum and minimum values in a data set?

A) Average
B) Deviation
C) Range
D) Frequency

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

A) The frequency count
B) The individual data units
C) The leading digit(s)
D) The total sum

5. Which measure of central tendency is calculated by adding all values and dividing by the count?

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

6. When interpreting a bar graph, what does the height of each bar represent?

A) The range
B) The mean
C) The frequency
D) The interval

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7. Which chart type is most effective for displaying how a whole is divided into proportional parts?

A) Bar graph
B) Line plot
C) Pie chart
D) Stem-and-leaf plot

8. What is the 'mode' of the following data set: 2, 4, 4, 7, 8, 8, 8, 9?

A) 4
B) 7
C) 8
D) 9

9. In a frequency table, what does the 'tally' column indicate?

A) The total sum
B) The number of occurrences
C) The range of data
D) The average value

10. Which type of data is collected by counting objects, such as the number of students in a class?

A) Discrete data
B) Continuous data
C) Categorical data
D) Ordinal data

11. If a survey question asks for a favourite colour, what type of data is being collected?

A) Numerical
B) Discrete
C) Categorical
D) Continuous

12. What is the range of the set: 12, 15, 18, 22, 25?

A) 10
B) 12
C) 13
D) 15

13. Which graph type is best suited for showing trends in data over a period of time?

A) Pie chart
B) Line graph
C) Scatter plot
D) Bar graph

14. In a set of data, what is the 'outlier'?

A) The middle value
B) The most frequent value
C) A value significantly different from others
D) The sum of the values

15. What is the median of the following set: 3, 7, 1, 9, 5?

A) 3
B) 5
C) 7
D) 1

16. When collecting data through an experiment, what is the set of all possible outcomes called?

A) Sample space
B) Frequency
C) Range
D) Distribution

17. What does the 'x-axis' on a standard bar graph usually represent?

A) The frequency
B) The categories
C) The title
D) The legend

18. Which statistical term refers to the 'most common' value in a data set?

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

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