

Elementary Statistics and Probability

Mathematics · Practice Test · 18 Questions

1. Which type of graph uses vertical bars to show information?

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

2. In a set of data, what is the 'mode'?

- A) The middle value
- B) The average
- C) The most frequent value
- D) The smallest value

3. What is the probability of a fair six-sided die landing on a number greater than 6?

- A) 0
- B) 1
- C) $1/6$
- D) $1/2$

4. What is the 'range' of a set of numbers?

- A) The sum of all numbers
- B) The difference between the highest and lowest values
- C) The middle number
- D) The number that appears most often

5. If a coin is tossed, what are the chances of it landing on heads?

- A) 0
- B) $1/4$
- C) $1/2$
- D) 1

6. Which term describes an event that is impossible to happen?

- A) Likely
- B) Certain
- C) Unlikely
- D) Zero probability

7. What do you call a table that uses marks to keep track of counting?

- A) Tally chart
- B) Frequency table
- C) Bar chart
- D) Histogram

8. If a bag contains 3 red marbles and 1 blue marble, what is the probability of picking a blue marble?

- A) $\frac{1}{4}$
- B) $\frac{1}{3}$
- C) $\frac{3}{4}$
- D) $\frac{1}{2}$

9. Which of the following is a type of data representation?

- A) Pictograph
- B) Addition
- C) Subtraction
- D) Multiplication

10. If an event is 'certain' to happen, what is its probability?

- A) 0
- B) 0.5
- C) 1
- D) 10

11. In a pictograph, what does the 'key' explain?

- A) The title of the graph
- B) The total number of items
- C) What each symbol represents
- D) The date of the data

12. What is the 'median' of a data set?

- A) The middle value when ordered
- B) The largest value
- C) The difference between values
- D) The total sum

13. Which word best describes the chance of rolling a 1 on a standard six-sided die?

- A) Certain
- B) Impossible
- C) Unlikely
- D) Equal

14. When you collect data by asking people questions, what is this called?

- A) A survey
- B) An experiment
- C) A graph
- D) A prediction

15. How many outcomes are there when you flip a single coin?

- A) 1
- B) 2
- C) 3
- D) 4

16. What does a 'line plot' show?

- A) Changes over time
- B) Frequency of data on a number line
- C) Categories of data
- D) Percentages of a whole

17. If you have a 50% chance of an event happening, how is this described?

- A) Likely
- B) Impossible
- C) Even chance
- D) Certain

18. What is the first step in creating a frequency table?

- A) Drawing a graph
- B) Collecting data
- C) Writing a report
- D) Calculating the mean