

Elementary Statistics and Probability

Mathematics · Answer Key · 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