

Statistics for Young Learners

Statistics · Answer Key · 15 Questions

1. When counting the number of different colored apples in a basket, what is the first step in creating a data set?

- A) Eating the apples
- B) Sorting the apples into groups**
- C) Naming each apple
- D) Painting the apples

2. Which tool is most commonly used to record tallies by drawing four vertical lines and one diagonal line through them?

- A) A calculator
- B) A blank notebook
- C) A tally chart**
- D) A ruler

3. If a class has 5 cats, 3 dogs, and 2 birds as pets, what is the total number of pets represented in this data?

- A) 8
- B) 9
- C) 10**
- D) 12

4. What is the name of a chart that uses pictures to represent the frequency of data points?

- A) A circle graph
- B) A bar graph
- C) A pictograph**
- D) A line plot

5. In a bar graph, what does the height or length of the bar represent?

- A) The color of the bar
- B) The date the data was collected
- C) The frequency or count of the items**
- D) The shape of the items

6. When looking at a data set of {2, 2, 3, 5, 5, 5, 7}, which number appears most frequently?

- A) 2
- B) 3
- C) 5**
- D) 7

7. If you flip a fair coin 100 times, which of these is a fact about the result?

- A) It will always land on heads 50 times
- B) It will always land on tails 50 times
- C) The result is based on chance**
- D) It will never land on its edge

8. What do we call the middle value in a sorted list of numbers?

- A) The average
- B) The median**
- C) The sum
- D) The range

9. Which type of graph is best suited for comparing two different categories, such as the number of boys and girls in a room?

- A) A bar graph**
- B) A map
- C) A storybook
- D) A dictionary

10. In a survey of favorite fruits, if 10 children choose bananas and 4 choose oranges, what is the difference in count?

- A) 14
- B) 6**
- C) 4
- D) 10

11. What is the 'range' of the data set {1, 3, 5, 7}?

- A) 6**
- B) 8
- C) 7
- D) 4

12. When you organize data into a table, what do we call the headings at the top of the columns?

- A) Labels**
- B) Instructions
- C) Numbers
- D) Pictures

13. If you roll a standard six-sided die once, what is the probability of rolling a number greater than 6?

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

14. Which of these is a way to represent the 'total' of a data set?

- A) The sum of all values**
- B) The name of the items
- C) The date
- D) The color of the items

15. In a set of data showing 3 red cars, 2 blue cars, and 1 green car, which color is the 'mode' (most common)?

- A) Blue
- B) Green
- C) Red**
- D) None