

Max's Magnificent Math Statistics Quiz

Learning objective: To interpret and present data using bar charts, tables, and line graphs, and to solve problems using these data sets.

Help Max the monkey solve these data puzzles! Read each question carefully and write your answers clearly.

Answer Key: 1) C, 2) True, 3) 5, 4) B, 5) 12, 6) True, 7) A, 8) 15, 9) False, 10) 4. Explanation: Max uses statistics to track his fruit collections. Remember: a line graph shows change over time, while a bar chart compares different categories.

Word bank: Bar chart · Table · Line graph · Data · Frequency · Interval

1. Which type of graph is best for showing how the temperature changes throughout the day? A) Bar chart B) Table C) Line graph* D) Pictogram (1 mark)

2. True or False: In a bar chart, the gaps between the bars should be equal in width. (1 mark)

3. Max collected 10 bananas on Monday and 5 on Tuesday. How many more bananas did he collect on Monday than Tuesday? (1 mark)

4. If a table shows that 8 children like apples and 12 like pears, what is the total number of children? A) 18 B) 20* C) 22 D) 24 (1 mark)

5. Ellie the elephant counted 7 birds in the morning and 5 in the afternoon. What is the total frequency of birds? (1 mark)

6. True or False: A line graph is useful for comparing the favorite colors of a group of children. (1 mark)

7. Kit the fox bought 3 notebooks for £2.00 each. What is the total cost? A) £6.00* B) £5.00 C) £4.00 D) £7.00 (1 mark)

8. On a bar chart, if the bar for 'Apples' reaches the number 15, how many children chose apples? (1 mark)

9. 9. True or False: You can always find the 'range' of a set of data by adding the highest and lowest values together. (1 mark)

10. 10. If a bar chart has an interval of 2 on the y-axis, and the bar reaches the second mark up, what is the value? (1 mark)

Draw: Draw a simple bar chart showing how many pieces of fruit Max the monkey ate this week: 4 apples, 6 bananas, and 2 oranges.



Extension challenge: Max has £10.00. He buys 4 packs of stickers for £1.50 each. How much change does he have left? Show your working out!