

# Max's Magnificent Maths 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)**

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

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

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**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)**

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

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

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**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)**

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

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**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!*