Max’s Market Stall: A Guide to Statistics

Learning objective: To interpret and present data using bar charts and tables, and solve comparison and sum/difference problems.

Max the monkey is helping at the local community market. Look at the data table below showing how many pieces of fruit he sold on Saturday, then answer the questions to help him balance his records.

Max sold the following fruit at the market: Apples: 15, Bananas: 22, Pears: 9, Oranges: 18. Each fruit was sold for £1.50 individually. Max wants to make sure he knows which fruit was the most popular and how much money he made in total from these sales.

Word bank: Bar chart · Axis · Frequency · Data · Total · Difference · Interval

1. Using the data in the passage, which fruit was the most popular, and how many more were sold than the least popular fruit? (2 marks)

2. Calculate the total number of pieces of fruit Max sold altogether. (2 marks)

3. If Max sold 22 bananas for £1.50 each, how much money did he make from bananas alone? Show your working out. (3 marks)

4. If you were to draw a bar chart for this data, what would be a sensible scale to use on the vertical axis (the frequency axis) to ensure it fits on your page? (2 marks)

5. Max thinks he sold 70 pieces of fruit in total. Is he correct? Explain how you know. (2 marks)

Draw: Draw a bar chart based on Max's fruit sales. Remember to label both axes, give your chart a title, and use a clear scale for the numbers.

Extension challenge: Max decides to lower the price of pears to £1.00 each to see if he can sell 20 next week. If he reaches his goal of 20 pears at £1.00 and keeps all other sales the same, how much more money will he make in total compared to this week?