Max’s Market Stall Statistics

Learning objective: To interpret and present data using bar charts and pictograms, and to solve comparison, sum and difference problems using information presented in bar charts.

Read the data about Max the monkey’s fruit stall below, then answer the questions to help him organise his shop.

Max has been busy running a fruit stall at the local village fair. He kept a tally of the fruit he sold during the morning. He sold 12 apples, 8 pears, 16 bananas, and 4 oranges. Each apple costs 30p, each pear costs 40p, each banana costs 25p, and each orange costs 50p. Max wants to know which fruit was the most popular and how much money he made from his best-selling item.

Word bank: bar chart · data · frequency · total · difference · pictogram · axis · scale

1. Using the data provided, which fruit was the most popular and which was the least popular? (2 marks)

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

3. What is the difference in the number of bananas sold compared to the number of pears sold? (2 marks)

4. Max sold 16 bananas at 25p each. How much money did he make from the bananas? Give your answer in pounds and pence. (2 marks)

5. If Max were to draw a bar chart to show this data, what would be a sensible scale for the vertical axis (y-axis)? Explain your reasoning. (2 marks)

Draw: Draw a bar chart to represent the fruit sold by Max. Remember to label the bottom axis with the fruit names and the side axis with the number of pieces sold. Give your chart a clear title.

Extension challenge: Max decides to lower the price of oranges to 35p. If he sells another 4 oranges at this new price, how much extra money will he make in total compared to the original price?