Max’s Market Data Investigation

Learning objective: To collect, organise, and interpret data using tables, line graphs, and calculating the mean average.

Max the monkey is helping the local community market traders track their sales this week. Use this template to record your own data findings. Choose a product, record the sales over five days, calculate the mean, and draw a conclusion based on your evidence.

Word bank: mean · average · frequency · data set · x-axis · y-axis · trend · total · calculate

1. Data Collection: Choose a product (e.g., apples, honey jars, or handmade bookmarks). Create a tally chart for five days of sales and record the total frequency for each day. (2 marks)

2. Graph Construction: Plan your line graph. What labels will you use for the x-axis and y-axis to ensure your data is clearly represented? (2 marks)

3. Calculating the Mean: Show your working out to find the mean number of items sold per day. Remember to add the total and divide by the number of days. (3 marks)

4. Financial Analysis: If each item sold for £2.50, what was the total revenue for the week? Show your calculation. (2 marks)

5. Interpreting Trends: Looking at your graph, describe one trend you notice. Why do you think sales were higher or lower on specific days? (3 marks)

Extension challenge: Compare your mean average with a partner. If you both sold the same total number of items over the week, did you have the same daily average? Explain why or why not.