

Max's Market Data Investigation

Learning objective: To collect, organise, and interpret data using tables and line graphs to solve mathematical problems.

Max the monkey has been helping at the local village market. Use this template to record the prices and sales data he has collected. Follow the prompts to complete your table, create a line graph, and answer the analytical questions.

Word bank: axis · data · frequency · interval · scale · trend · table · total

1. Market Price Table: Choose four items sold at the market. Create a table with columns for 'Item', 'Price per unit (£)', and 'Quantity sold'. Record your chosen data here. (3 marks)

2. Total Earnings Calculation: Calculate the total money earned for each item by multiplying the price by the quantity sold. Show your working out for each item. (3 marks)

3. Line Graph Setup: Describe how you would label the X and Y axes for a line graph showing sales over five days. What scale would you use for the Y-axis? (2 marks)

4. Data Interpretation: Compare your results. Which item generated the highest profit? Explain why the price or quantity sold might have caused this. (3 marks)

5. Predictive Reasoning: If the market were open for a sixth day, what trend would you expect to see in your data? Give a reason for your prediction. (2 marks)

Extension challenge: Create a bar chart on squared paper using the data from your table. Ensure you include a title, labels for both axes, and a clear, consistent scale.