

Kit's Data Detective Challenge

Learning objective: To understand how to collect, represent, and interpret data using tally charts and bar charts.

Read each question carefully and use your data handling skills to solve the puzzles. Show your working out where necessary.

Word bank: tally · frequency · data · bar chart · axis · total · information

1. Kit the fox is counting the types of gadgets his friends have in their backpacks. He sees 7 tablets, 4 cameras, and 9 digital watches. Create a tally chart to represent this data. (3 marks)

2. Using your data from Question 1, what is the total number of gadgets Kit counted altogether? Show your addition calculation. (2 marks)

3. If Kit were to draw a bar chart to show this information, what should he label the x-axis (the horizontal line) and the y-axis (the vertical line)? (2 marks)

4. A tablet costs £120 and a digital watch costs £45. If Kit buys one of each, what is the total cost in pounds and pence? (2 marks)

5. Explain why it is useful to use a tally chart before drawing a final bar chart. Why might we collect data in the first place? (2 marks)

Draw: Draw a bar chart based on the gadget data from Question 1. Remember to give your chart a title and label both axes clearly.



Extension challenge: Imagine you surveyed 20 classmates about their favourite fruit. Create a frequency table with three categories and write one sentence explaining how you would present this data to the class.