

Max's Market Stall Statistics

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

Help Max the monkey calculate the takings from his fruit stall. Use the data provided in the table to answer the questions below. Ensure you show your working out for multi-step problems.

Max has been selling fruit to his friends. The table below shows how many pieces of fruit he sold on Saturday:

Apples: 15 sold (£0.50 each)
Bananas: 22 sold (£0.30 each)
Oranges: 18 sold (£0.40 each)
Kiwi fruits: 10 sold (£0.60 each)

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

1. Calculate the total number of pieces of fruit Max sold. How many more bananas did he sell than kiwi fruits? (2 marks)

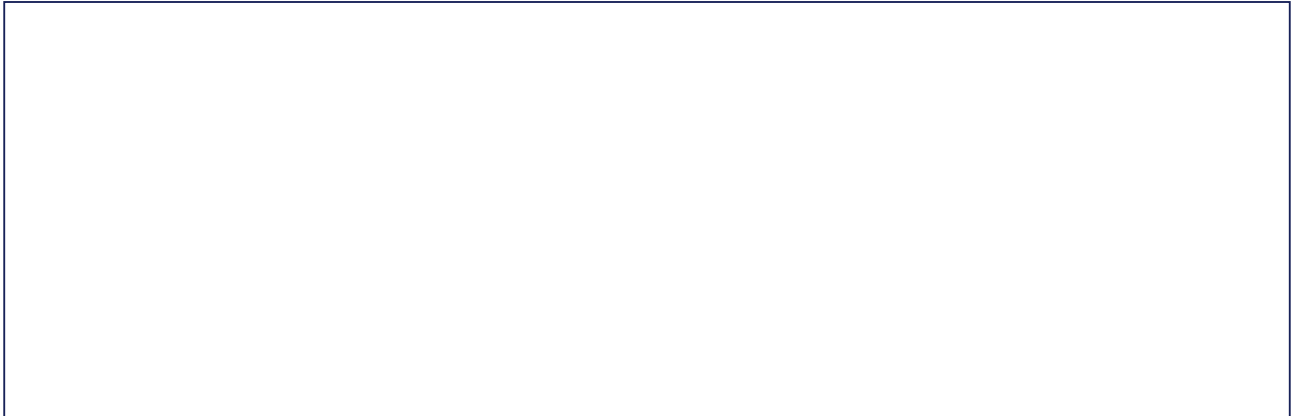
2. Max wants to create a bar chart for this data. If he uses a scale where each square represents 2 pieces of fruit, how many squares high would the bar for Oranges be? (2 marks)

3. Calculate the total amount of money (£) Max earned from selling his Apples and his Kiwis combined. (3 marks)

4. Compare the total revenue from Bananas (£6.60) to the total revenue from Oranges (£7.20). Explain why the Oranges earned more money even though Max sold fewer of them. (3 marks)

5. Justify your answer: If Max increases the price of a Kiwi fruit to £0.80, but sells 3 fewer, would he make more or less money than he did before? Show your calculation. (4 marks)

Draw: Draw a bar chart representing the fruit sales. Remember to label your axes clearly, give the chart a title, and choose an appropriate scale for your Y-axis.



Extension challenge: What might happen to the data if Max decided to sell 'Fruit Bundles' containing one of each fruit type? Create a new table showing the potential frequency if he sells 8 bundles. Explain how this changes the way you would represent the data visually.