

Max's Market Stall: Statistics and Data Handling

Learning objective: To calculate the mean average and interpret data presented in line graphs and tables.

Help Max the monkey organise his fruit stall sales. Read the data carefully and show all your working out for the calculations.

Max has been tracking his fruit sales over five days. On Monday he sold £12.50, Tuesday £15.00, Wednesday £10.50, Thursday £18.00, and Friday £14.50.

Word bank: mean · average · line graph · data · frequency · total · interval

1. Calculate the total amount of money Max made from his fruit sales over the five days. (1 mark)

2. Calculate the mean daily amount of money Max earned. Show your method. (2 marks)

3. If Max predicts he will sell £20.00 worth of fruit on Saturday, how would this change the mean for the six-day period? Explain your reasoning. (2 marks)

4. Max created a line graph of his sales. If the x-axis represents the days of the week and the y-axis represents the amount in £, what would the interval on the y-axis need to be to display values from £0 to £20 clearly? (1 mark)

5. Max sold 30 apples on Monday, 25 on Tuesday, 40 on Wednesday, 35 on Thursday, and 20 on Friday. Calculate the mean number of apples sold per day. (2 marks)

Draw: Draw a line graph showing Max's fruit sales (£) on the y-axis and the days of the week on the x-axis. Ensure your axes are labelled clearly with appropriate scales.



Extension challenge: Max decides to add a 'Special Offer' sign. If he reduces the price of his oranges from £1.20 to £0.90, and he sells 15 oranges, how much money does he make? Compare this to how much he would have made at the original price.