

Max's Market Stall Statistics

Learning objective: To calculate and interpret the mean as an average, and solve problems involving line graphs and tables.

Max the monkey is helping a local fruit farmer track the sales of different items over a five-day period. Use the data provided in the table to answer the questions below. Remember, to find the mean, you must add all the values together and divide by the number of days.

Max's Fruit Stall Sales (£):

Day | Apples | Bananas | Oranges

Monday | £12 | £15 | £10

Tuesday | £18 | £12 | £14

Wednesday | £15 | £20 | £11

Thursday | £14 | £18 | £12

Friday | £21 | £25 | £18

Word bank: Mean · Average · Frequency · Total · Data · Range

1. Calculate the total amount earned from selling apples over the five days. Show your working out. (2 marks)

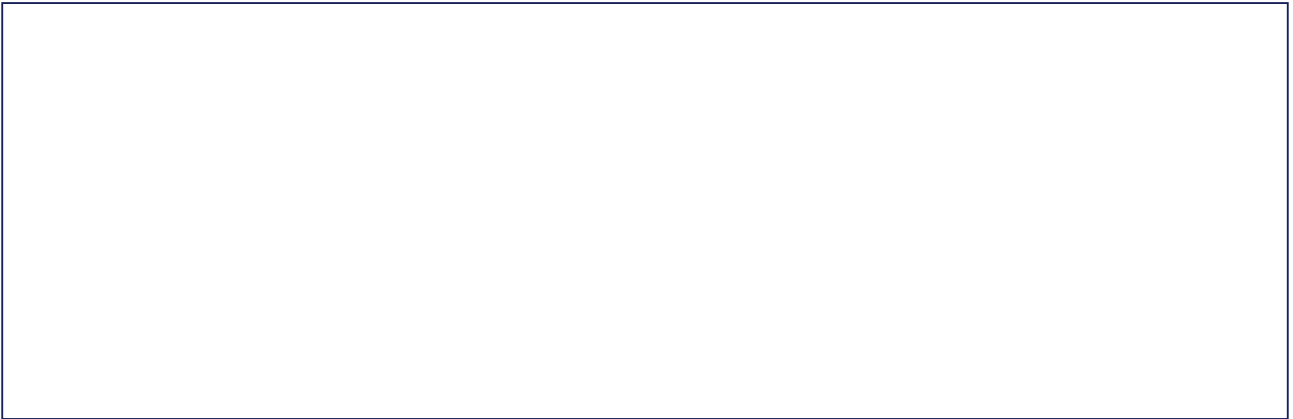
2. What is the mean daily income for bananas? Show your calculation. (2 marks)

3. On which day was the total combined revenue for all three fruits the highest? (1 mark)

4. Max says, 'The range of orange sales is £8.' Is he correct? Explain your reasoning using the data from the table. (2 marks)

5. If Max wants to earn an average of £20 per day from bananas next week, how much more money does he need to earn in total compared to this week? (2 marks)

Draw: Draw a simple line graph showing the sales of apples over the five days. Ensure your axes are labelled correctly with 'Days of the Week' on the x-axis and 'Sales (£)' on the y-axis.



Extension challenge: Imagine you are Max. Create a new category of fruit and invent your own sales data for five days. Write two questions based on your new data that require a friend to calculate the mean and the range.