Max’s Market Stall Challenge

Learning objective: To solve multi-step problems involving addition, subtraction, and estimation of money in pounds and pence.

Read the story about Max’s market stall and use your maths skills to help him manage his accounts. Show your working out clearly for each calculation.

Max the monkey has opened a fruit stall at the forest market to raise money for new library books. He sells bunches of bananas for £1.25, bags of crisp apples for £2.40, and punnets of juicy berries for £3.15. Max starts his day with a float of £10.00 in his tin. Throughout the morning, he sells 4 bunches of bananas, 2 bags of apples, and 3 punnets of berries. However, Max also had to spend £4.50 of his takings to buy a new wooden crate to display his fruit. Max needs to calculate his final profit to see if he can afford the new books.

Word bank: estimate · calculate · total · change · expenditure · profit · denomination · value

1. Calculate the total revenue Max made from his sales before buying the wooden crate. Show your method. (2 marks)

2. After paying £4.50 for the crate, what is the total amount of money remaining in Max’s tin, including his original £10.00 float? (2 marks)

3. Explain why it is important for Max to keep track of his float separately from his daily sales profit. (2 marks)

4. If a customer buys 2 bunches of bananas and 1 punnet of berries, and pays with a £10.00 note, how much change should Max give them? (2 marks)

5. Justify your answer: If Max wants to reach a total profit of £20.00, does he have enough money now? Explain your reasoning. (3 marks)

6. What might happen if Max decided to increase the price of his apples by 50p? Compare and contrast how this might affect his total sales compared to his current prices. (3 marks)

Draw: Draw a creative sign for Max's market stall that clearly displays his fruit prices using the £ symbol. Include a small drawing of Max holding a calculator.

Extension challenge: Design a new 'Fruit Bundle' deal for Max. Create a combination of three items and calculate a discounted price. Write a persuasive sentence explaining why a customer would save money by choosing your bundle over buying the items individually.