Max’s Market Stall Challenge

Learning objective: To solve multi-step problems involving money, including calculating change, finding total costs, and comparing prices.

Read the passage about Max’s charity market stall. Use your mathematical skills to solve the problems, ensuring you show your working out clearly. Remember to include the £ sign and use two decimal places for pence.

Max the monkey has opened a community market stall to raise funds for the local library. He has organised his items carefully. He sells hand-painted bookmarks for £1.45 each, jars of forest honey for £3.80, and illustrated poetry booklets for £2.25. Today, a customer bought two bookmarks, one jar of honey, and three poetry booklets. The customer handed Max a £20 note. Max needs to calculate the total cost of the items and ensure he provides the correct change. He also wants to compare his earnings to see which item is the most popular.

Word bank: expenditure · profit · transaction · decimal · calculate · remainder · comparison

1. Calculate the total cost of the customer's shopping list. Show your addition. (2 marks)

2. How much change should Max give back to the customer from their £20 note? (2 marks)

3. If Max sold 10 bookmarks and 4 jars of honey, what would his total revenue be for those items? (2 marks)

4. Explain why Max must be accurate with his decimal points when recording the price of the honey (£3.80). What might happen if he recorded it as £3.08 instead? (3 marks)

5. Justify your answer: If Max wants to reach a profit of £50.00, and he has already made £32.50, how much more does he need to earn? (3 marks)

Draw: Draw a display of Max's market stall items with price labels clearly written in pounds and pence. Include a small sign showing the 'Total Revenue' for the day.

Extension challenge: Imagine Max decides to introduce a 'Buy 3 for £6.00' deal on poetry booklets. Compare and contrast the total cost of buying 3 booklets at the original price versus the new deal price. If a customer buys 6 booklets under the new deal, how much money have they saved compared to the original price?