

Max's Mathematical Mission: The Market Challenge

Learning objective: To solve multi-step word problems involving addition, subtraction, multiplication, and division using dollars and cents.

Max the monkey is helping at the local community market today! Read each section carefully and help Max calculate the totals, changes, and quantities needed for the stall. Remember to show your working out and include the correct units (£ or p).

Word bank: total · calculate · remainder · multiplication · difference · budget · operation · estimate

1. The Fruit Stand: Max has £20.00. He buys 4 punnets of strawberries at £2.50 each and 3 bags of apples at £1.75 each. Calculate the total cost and the change Max will receive. (3 marks)

2. The Flower Stall: A bunch of sunflowers costs £3.20. If a customer buys 6 bunches and pays with a £20 note and a £5 note, how much change should they get? (3 marks)

3. The Bakery Batch: A loaf of bread costs £1.85. The baker needs to make £55.50 to cover the cost of ingredients. How many loaves must be sold to reach this target? (2 marks)

4. The Sharing Problem: Max finds a box of 48 individual muffins. He wants to share them equally between 8 friends. If each muffin costs 60p, what is the total value of the muffins each friend receives? (3 marks)

5. The Final Tally: If the market stall makes £120.50 in the morning and £85.75 in the afternoon, but has to pay £45.00 for the stall rental, what is the final profit? (2 marks)

Extension challenge: Create your own 'Market Challenge' word problem for a friend. Use at least two different operations (e.g., multiplication and subtraction) and ensure your answer involves dollars and cents.