

Max's Market Stall Challenge

Learning objective: To solve complex multi-step problems involving addition, subtraction, and estimation using dollars and cents.

Max the monkey is helping at the local community market. He has a set budget of £20.00 to buy ingredients for a fruit salad. Use the table of prices below to complete the challenges. Show your working out clearly for each calculation.

Word bank: estimate · total · budget · change · remainder · value · decimal point · pence

1. Max wants to buy 3 punnets of strawberries at £2.45 each and 2 bags of apples at £1.80 each. Calculate the total cost of his shopping. How much change will he receive from his £20.00 note? (3 marks)

2. If Max decides to swap the apples for 4 bunches of grapes at £1.25 each, explain why his total spend will increase. Calculate the new total. (3 marks)

3. Max has £5.50 left. He wants to buy as many individual mangoes as possible, which cost 85p each. How many can he buy and how much money will he have remaining? (3 marks)

4. Justify your answer: If the price of strawberries increased by 50p per punnet, would Max still be able to afford his original shopping list of 3 punnets and 2 bags of apples? Show your calculation. (3 marks)

5. Compare and contrast: Why is it important to use a decimal point when writing money amounts like £2.45 compared to just writing 245p? (2 marks)

6. What might happen if Max misread a price tag of £1.05 as £1.50? How would this affect his final budget calculation? (2 marks)

Draw: Draw a creative 'Fruit Price List' for Max's stall, including at least five items with prices in dollars and cents, ensuring the total cost of one of each item is exactly £10.00.



Extension challenge: Design a 'Budget Menu' for a school party. You have a budget of £50.00. Create a list of 6 items you would buy, calculate the total cost, and explain how you would manage the money if the store suddenly announced a 10% discount on all fruit items.