

Max's Festive Feast Calculations

Learning objective: To solve multi-step problems involving money, decimals, and rounding in a festive context.

Read the passage below carefully. Use your knowledge of decimal addition, subtraction, and multiplication to help Max the monkey organise his community Christmas party. Show your working out clearly.

Max is planning a grand Christmas feast for all the BookFlik friends. He has a total budget of £150.00. He needs to purchase organic fruit, artisanal bread, and decorations. The fruit platter costs £24.75, and he needs to buy four platters. The bread costs £3.50 per loaf, and he requires twelve loaves for the hungry guests. Finally, the decorations are on sale for £18.90 for a set, and he intends to buy three sets. Max must ensure he stays within his budget while calculating the exact cost of each item and the total change remaining.

Word bank: decimal point · budget · calculate · expenditure · remainder · estimate

1. Calculate the total cost of the four fruit platters. If Max pays with two £50 notes, how much change should he receive from the fruit purchase alone? (2 marks)

2. Max decides to buy twelve loaves of bread at £3.50 each. Explain why the total cost of the bread is exactly £42.00 using a written calculation method. (2 marks)

3. Calculate the total expenditure for the fruit, the bread, and the three sets of decorations. Does Max have enough money left over from his £150.00 budget to buy a festive garland costing £12.50? (3 marks)

4. Justify your answer: If the price of the decorations increased by 10% due to high demand, how much would Max need to pay for the three sets? Show your working. (3 marks)

5. Compare and contrast the cost of the fruit platters against the bread. Which item represents the largest portion of Max's total budget and why? (2 marks)

Draw: Draw a detailed table setting for Max's party, including the fruit platters and decorations described in the passage. Label your drawing with the prices of each item you have included.



Extension challenge: What might happen if Max invited twenty more guests to the party? Create a new budget plan that accounts for an additional 25% increase in food supplies. Justify whether his current £150.00 budget would be sufficient, or calculate the exact amount of additional funding required.