

Max's Spooky Shop Calculations

Learning objective: To apply knowledge of addition, subtraction, and multiplication to solve multi-step problems involving money within a Halloween-themed context.

Max the monkey is helping set up a charity Halloween fair. Use your maths skills to help him manage the shop inventory and calculate the costs. Show your working out clearly in the space provided. Remember to use the £ symbol and represent pence correctly (e.g., £1.50).

Word bank: total · calculate · difference · product · exchange · estimate · remainder · value

1. Item Pricing: Max has 5 packs of spooky spider decorations. If each pack costs £2.45, calculate the total cost for all 5 packs. Show your method. (3 marks)

2. Comparing Costs: A pumpkin costs £3.75 and a box of ghost biscuits costs £2.10. Calculate the difference in price. Justify which item you would choose if you only had £5.00 and explain why. (4 marks)

3. Budgeting: Max has £20.00 to spend on party bags. If he buys 4 bags at £3.25 each, how much change will he receive? Explain the steps you took to reach your answer. (4 marks)

4. Multi-step Challenge: If Max sells 8 witch hats for £1.50 each and 6 magic wands for £2.25 each, what is the total amount of money he has collected? Show your full calculation. (4 marks)

5. Critical Thinking: What might happen to the shop's profit if Max decided to reduce the price of all items by 50p? Compare and contrast the potential outcome with the original prices. (4 marks)

6. Logical Reasoning: If Max has a budget of £15.00 and needs to buy at least three different types of items, create a shopping list that uses as much of the budget as possible without exceeding it. (4 marks)

Extension challenge: Design your own 'Halloween Shop' price list with five different items. Write one complex word problem involving at least two operations (e.g., addition and multiplication) for a partner to solve using your prices.