

Max's Spooky Autumn Market Challenge

Learning objective: To solve multi-step problems involving addition, subtraction, and multiplication of money, applying Year 4 mathematical reasoning.

Max the monkey is helping the forest creatures set up their Autumn Harvest stalls. Use the price list provided in the questions to calculate the total costs, find the change from a £10 note, and solve Max's logic puzzles. Show your working out clearly for every calculation.

Word bank: Calculation · Difference · Product · Total · Change · Reasoning · Strategy

1. The price list is as follows: Pumpkin £2.45, Bag of Roasted Seeds £1.20, Autumn Wreath £3.50, and Spiced Apple Juice £0.85. If Ellie the Elephant buys two pumpkins and one bag of seeds, what is the total cost? (2 marks)

2. Zara the Zebra has a £10 note. She wants to buy three Autumn Wreaths. Explain why she does not have enough money to buy four wreaths. (2 marks)

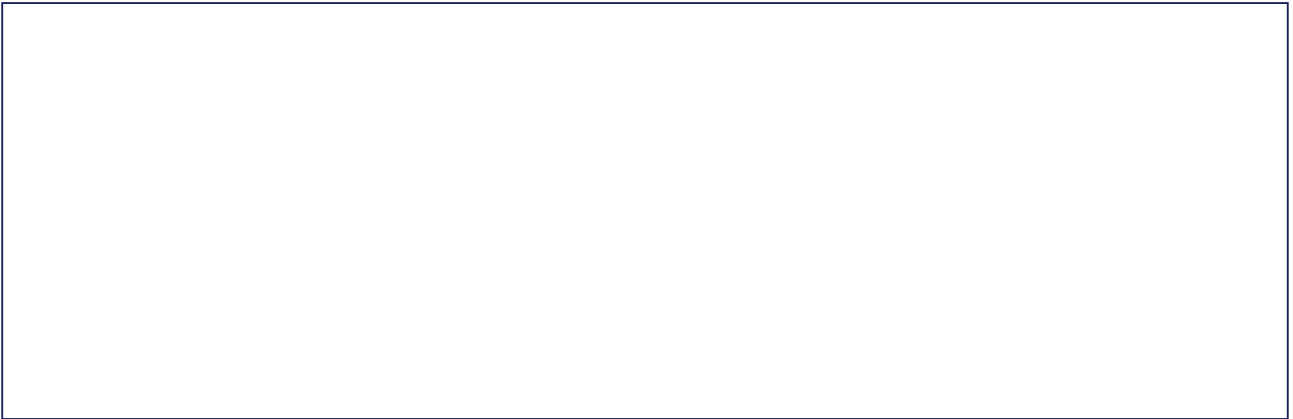
3. Kit the Fox buys four cups of Spiced Apple Juice. He pays with a £5 note. Calculate how much change he should receive. (2 marks)

4. Compare and contrast the cost of buying one of everything on the price list versus buying five bags of seeds. Which is more expensive and by how much? (3 marks)

5. Justify your answer: If Leo the Lion has £7.00, can he afford to buy two pumpkins and two cups of apple juice? Show your mathematical evidence. (3 marks)

6. What might happen if the price of pumpkins increased by £0.55? Calculate the new total cost for buying three pumpkins at the new price. (3 marks)

Draw: Draw a creative, symmetrical display for Max's Autumn Market stall, ensuring all items have their prices clearly labelled using £ and p.



Extension challenge: Design your own 'Spooky Harvest' item to sell at the market. Give it a price and create a word problem for a friend that requires at least two different mathematical operations to solve.