

Max's Market Stall: A Decimal Challenge

Learning objective: To identify, write, and order numbers with up to three decimal places and solve problems involving money.

Max the monkey is helping at the local market today! Use this template to calculate costs, compare prices, and help Max manage his stall. Read each section carefully and show your working out using your knowledge of place value and decimals.

Word bank: tenths · hundredths · thousandths · place value · decimal point · equivalent · rounding · sum · difference

1. The Fruit Price List: Imagine Max has three types of fruit for sale. Create a price list where each fruit costs a different amount between £1.50 and £5.00, using at least two decimal places. Write them in ascending order. (3 marks)

2. The Bundle Deal: If a customer buys one of each fruit from your price list, what is the total cost? Show your addition method clearly, ensuring you line up your decimal points. (3 marks)

3. Rounding for Speed: Max wants to round his prices to the nearest pound to help customers pay quickly. Round your three fruit prices to the nearest £1.00. Explain how you decided whether to round up or down. (3 marks)

4. The Bulk Discount: Max decides to offer a discount of £0.25 on the total cost of the bundle. Calculate the new price. If the customer pays with a £10.00 note, how much change should Max give them? (4 marks)

5. Decimal Comparison: A bag of nuts costs £2.475. Max says this is the same as £2.48 when rounded to two decimal places. Is he correct? Write a sentence explaining your reasoning using the word 'thousandths'. (2 marks)

Extension challenge: Challenge: If Max wants to sell a smaller snack for exactly one-eighth of a pound (£0.125), how would he display this price on his stall? Why is it tricky to use coins for this amount?