

Max's Market Stall: A Decimal Challenge

Learning objective: To identify, write, and compare decimals with up to three decimal places and understand the value of each digit.

Max the monkey is helping at a local market. Use this fact-file to help him price his items correctly. Fill in the boxes below using your knowledge of decimal place value to ensure Max's stall is ready for the customers.

Word bank: tenths · hundredths · thousandths · place value · decimal point · equivalent · digit

1. The Price Tag: Max has an item costing £4.75. Write this number in a place value grid. Which digit is in the tenths column and which is in the hundredths column? (2 marks)

2. Fractional Match: Max says 0.5 is the same as 50/100. Explain why he is correct using your knowledge of decimals and fractions. (2 marks)

3. The Thousandths Column: Max is weighing special organic nuts. The scale reads 0.125kg. Write this decimal in words and explain what the '5' represents. (2 marks)

4. Compare the Prices: Max has two bags of fruit. Bag A costs £2.34 and Bag B costs £2.309. Which bag is more expensive? Show your working out. (3 marks)

5. Rounding Up: Max wants to round his prices to the nearest pound. If an item costs £5.67, what would the price be rounded to the nearest whole pound? Explain your reasoning. (2 marks)

Extension challenge: Imagine Max has a new item that costs £10.999. Can you write down the next three prices if he increases the cost by 0.001 each time?