Max’s Market Stall: Exploring Decimals

Learning objective: Recognise and write decimal equivalents of any number of tenths or hundredths.

Help Max the monkey organise his market stall. Remember that 10 tenths make a whole, and 100 hundredths make a whole. Use your knowledge of place value to solve these decimal puzzles.

Max is running a fruit stall at the forest market. He has crates of apples and bunches of bananas. He likes to use decimals to label his prices. He knows that if a crate of 10 apples costs £1.00, then one single apple costs £0.10. If he has a special tray of 100 tiny berries that cost £1.00 in total, then each individual berry costs £0.01. Max is very careful to always place his decimal point correctly so that the prices are fair for all his animal friends.

Word bank: decimal point · tenths · hundredths · place value · equivalent · fraction

1. Max has a bunch of bananas that costs £0.60. Write this as a fraction of a pound. (1 mark)

2. If one pear costs £0.07, how would you write that as a fraction of a pound using hundredths? (1 mark)

3. Max sells a bag of nuts for £0.45. Which digit is in the tenths column and which digit is in the hundredths column? (2 marks)

4. Write the decimal that represents 8 tenths and 3 hundredths. (1 mark)

5. Zara the zebra buys a melon for £1.25. Explain why the '2' in this number is worth 2 tenths, not 2 units. (2 marks)

Draw: Draw a price tag for a piece of fruit that costs £0.84. Next to it, draw a model showing 8 full columns of ten squares and 4 individual squares to represent the decimal.

Extension challenge: Max has £2.00. He wants to buy a bag of dried mango costing £1.38. How much change will he have left? Show your working out using a number line or column subtraction.