

Max's Market Stall: The Decimal Discovery

Learning objective: To recognize, write, and compare decimals with tenths and hundredths, and to understand their relationship to fractions and money.

Max the monkey is running a fruit stall at the local village fair. He needs your help to price his produce correctly. Using the values provided in the word bank, help Max match the fraction of a pound to the correct decimal and complete the price tags. For the final questions, use your knowledge of place value to help Max organize his stock.

Word bank: 0.1 · 0.25 · 0.5 · 0.75 · 0.01 · 0.10 · £1.50 · £0.05

1. Max is selling apple slices for $\frac{1}{10}$ of a pound. Write this as a decimal in pounds (£). How does this compare to $\frac{1}{100}$ of a pound? (2 marks)

2. A punnet of berries costs £0.75. Explain why this is equivalent to $\frac{3}{4}$ of a pound. (2 marks)

3. Max has a bag of nuts priced at £1.50. If he decides to offer a 0.5 discount, what is the new price? Justify your calculation. (2 marks)

4. Compare the decimals 0.25 and 0.2. Which is larger? Explain your reasoning using your knowledge of tenths and hundredths. (2 marks)

5. If a single grape costs £0.01 (one hundredth of a pound), how many grapes would you need to buy to make exactly £0.10? (2 marks)

6. What might happen to Max's profit if he accidentally priced his fruit at 0.5 pence instead of £0.50? Explain the difference in value. (2 marks)

Draw: Draw a set of four price tags for Max's stall. Show the price of a banana as £0.25, a pear as £0.50, a lime as £0.10, and a cherry as £0.05. Decorate the tags with patterns to show you understand how these decimals look as parts of a whole.



Extension challenge: Max wants to create a 'Super Deal' bundle. If he bundles three items that cost £0.25 each, calculate the total cost. If a customer pays with a £1.00 coin, how much change should Max give back? Write a short explanation of how you would check your answer using addition.