

Max's Market Stall: A Fraction Adventure

Learning objective: To identify, represent, and compare unit and non-unit fractions of quantities and shapes.

Help Max the monkey organise his market stall! Use your knowledge of fractions to show how he shares his fruit and calculates prices. Look closely at the denominators to see how many equal parts the whole is divided into.

Word bank: numerator · denominator · equal parts · whole · fraction · quantity · equivalent

1. The Fruit Bowl: Max has 12 apples. If he puts $\frac{1}{4}$ of them in a basket for a customer, how many apples are in the basket? Show your working out. (2 marks)

2. Sharing Bananas: Max has 10 bananas. He wants to give $\frac{2}{5}$ of them to his friends. How many bananas does he give away? (2 marks)

3. Pricing Puzzles: A bunch of grapes costs £4. If Max sells $\frac{1}{2}$ of the bunch for half the price, how much does the customer pay? Write the amount in pounds and pence. (2 marks)

4. Shape Shifting: Max cuts a watermelon into 8 equal slices. If he sells 3 slices, what fraction of the watermelon is left? Write your answer as a fraction. (2 marks)

5. Comparing Quantities: Max has two piles of pears. Pile A has $\frac{1}{3}$ of 15 pears. Pile B has $\frac{1}{5}$ of 20 pears. Which pile has more pears? Explain your reasoning. (3 marks)

Extension challenge: Max has 20 oranges. Can you draw a diagram to show how he could share $\frac{3}{4}$ of them between 3 different boxes? How many oranges would be in each box?