

Max's Market Stall Challenge

Learning objective: To calculate fractions of amounts and compare fractions, decimals, and percentages in a real-world shopping context.

Max the monkey is running a charity fruit stall to raise money for the forest library. Help him solve these fraction puzzles by calculating the costs of his items. For each item, show your working out clearly. Remember: to find a fraction of an amount, divide by the denominator and multiply by the numerator.

Word bank: Numerator · Denominator · Equivalent · Simplify · Calculate · Fraction · Percentage · Decimal

1. Max has 40 juicy apples. He sells $\frac{3}{5}$ of them in the morning. How many apples were sold, and how many are left for the afternoon? (2 marks)

2. A bag of mixed berries costs £4.80. Max offers a 'Friendship Discount' of $\frac{1}{4}$ off the price. What is the new price of the berries? (2 marks)

3. Max has 60 bananas. He gives $\frac{1}{6}$ to Pip and $\frac{2}{5}$ to Ellie. How many bananas does Max have left for himself? (2 marks)

4. A punnet of cherries is priced at £3.50. Max decides to increase the price by $\frac{1}{10}$ to cover costs. What is the new price of the cherries? (2 marks)

5. If 8 out of 20 customers bought oranges, express this as a fraction in its simplest form, and then convert that fraction into a percentage. (2 marks)

Draw: Draw a sketch of Max the monkey standing behind a market stall displaying crates of fruit. Label the crates with fractions showing how much of each fruit is left (e.g., '1/4 of the pears sold').



Extension challenge: Max wants to create a 'Mega Fruit Bundle' that costs £12.00. He wants to offer a discount where the customer pays 0.75 of the original price. Calculate the discounted price and explain how you converted the decimal 0.75 into a fraction.