

Max's Market Stall: Fractions Challenge

Learning objective: To add, subtract, and multiply fractions, and calculate fractions of amounts in a real-world context.

Read the story of Max's market stall and answer the questions below. Show your working out clearly, ensuring all fractions are simplified to their lowest terms.

Max the monkey has decided to open a fruit stall at the local community market to raise money for new library books. He has 48 pieces of fruit to sell. At the start of the day, $\frac{3}{8}$ of the fruit were apples, $\frac{1}{4}$ were bananas, and the rest were oranges. Max sold $\frac{2}{3}$ of his apples by lunchtime. He also had a special offer: a bag of mixed fruit cost £4.50. If a customer bought $\frac{3}{5}$ of a bag, how much would they pay?

Word bank: numerator · denominator · equivalent · simplify · improper fraction · mixed number · product

1. How many individual apples did Max have at the start of the day? (2 marks)

2. How many apples had Max sold by lunchtime? Give your answer as a whole number. (2 marks)

3. What fraction of the total fruit were oranges? Show your calculation. (3 marks)

4. If a customer buys $\frac{3}{5}$ of a bag of fruit that costs £4.50, how much does the customer pay? Show your working. (3 marks)

5. Max adds $\frac{1}{6}$ of his remaining fruit to a smoothie. If he had 24 pieces of fruit left, how many pieces go into the smoothie? (2 marks)

Draw: Draw a basket containing 8 pieces of fruit, where $\frac{3}{8}$ are apples, $\frac{2}{8}$ are bananas, and $\frac{3}{8}$ are oranges.



Extension challenge: Max decides to lower the price of a full bag of fruit from £4.50 to £3.75. If a customer buys $\frac{2}{3}$ of the new price, how much do they save compared to the original price of $\frac{3}{5}$ of the £4.50 bag?