

Max's Market Challenge: A Year 4 Maths Adventure

Learning objective: To solve multi-step word problems involving addition, subtraction, and multiplication of money (£ and p).

Read the story below carefully. Use your maths skills to help Max calculate the totals for his community market stall. Show your working out clearly.

Max the monkey is helping at the local community market to raise funds for the school library. He has organised the fruit stall. He has 4 crates of apples, and each crate contains 12 apples. He sells each apple for 30p. Later in the morning, Max notices a display of fresh honey jars provided by Bea the honeybee. Each jar costs £2.50. A customer approaches the stall with a £10 note. They decide to buy 3 jars of honey and one punnet of strawberries that costs £1.75.

Word bank: Calculation · Difference · Total · Product · Exchange · Value · Estimate

1. How many apples does Max have in total, and what is the total value of all the apples if he sells every single one? (3 marks)

2. Calculate the total cost of the customer's purchase (3 jars of honey at £2.50 each and one punnet of strawberries at £1.75). (2 marks)

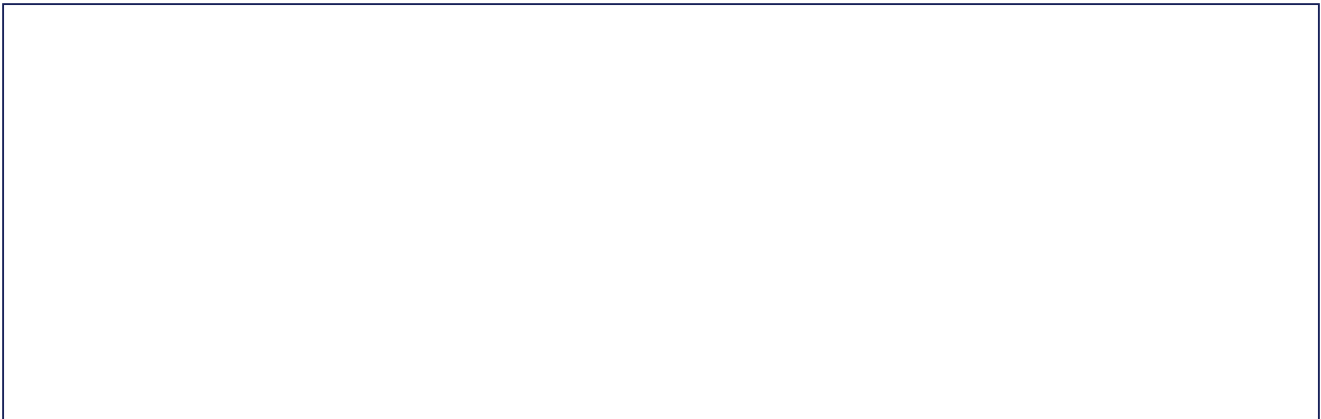
3. If the customer pays with a £10 note, how much change should Max give them? (2 marks)

4. Justify your answer: If Max wanted to sell the 48 apples for a total of £15.00, how much would he need to charge for each apple? Explain your reasoning. (3 marks)

5. Compare and contrast: Is it cheaper for the customer to buy 4 jars of honey or 12 apples at 30p each? Show your comparison calculation. (3 marks)

6. What might happen if Max decided to offer a 'buy two, get one half-price' deal on the honey jars? How would this change the total cost for the customer? (3 marks)

Draw: Draw a picture of Max the monkey counting his coins at the market stall, including labels for the prices of the apples and the honey jars.



Extension challenge: Design your own market stall! Choose three different items to sell and set their prices. Write two word problems for a partner to solve: one that requires addition and one that requires a multi-step calculation (e.g., multiplication and subtraction).