

Year 4 Mental Maths Challenge: Max the Monkey's Market Adventure

Learning objective: To assess mental calculation strategies, including addition, subtraction, multiplication, and division with money and place value.

Read each question carefully. Show your working out where possible. You have 30 minutes to complete this assessment. Use £ and p notation for your answers.

Max the Monkey is visiting the local market to buy fruit for his friends. He has a list of prices: Apples are 25p each, bananas are 40p each, and bags of nuts are £1.20. Max loves to use mental maths to make sure he has enough money in his pocket.

Word bank: estimate · partition · calculate · product · difference · total · remainder · exchange

1. Max buys 3 apples. How much do they cost in total? Show your mental method. (2 marks)

2. Max has £5.00. He spends £2.40 on bananas. How much change should he receive? Explain how you calculated this mentally. (3 marks)

3. If a bag of nuts costs £1.20, how much would 4 bags cost? Use the partition method to show your thinking. (3 marks)

4. Max finds 72p in his pocket and decides to share it equally between himself and his friend Leo. How much does each receive? (2 marks)

5. Calculate the following mentally: $450 + 380$. (2 marks)

6. Max wants to buy 6 oranges. Each orange costs 15p. He calculates the total cost and pays with a £1 coin. How much change does he get back? Show all steps of your mental calculation. (3 marks)

7. Max is planning a fruit party. He needs to buy items for 8 friends. If he buys 8 bananas at 40p each and 8 apples at 25p each, what is the total cost? Write a short explanation of how you grouped these numbers to make the calculation easier to do in your head. (5 marks)

8. What is 1,000 more than 4,562? (2 marks)

9. Fill in the missing number: $8 \times 6 = 4 \times ?$ (3 marks)

Draw: Draw a picture of Max the Monkey organising his fruit stall, showing the prices of the apples and bananas clearly on small wooden signs.



Extension challenge: Total: /25