

Max's Market Stall: A Division Investigation

Learning objective: To solve division problems including those with remainders, using the bus stop method and real-world currency contexts.

Max the monkey is helping his friends organize their market stalls. Use your knowledge of division to help him calculate the totals. Show your working out clearly in the boxes provided, especially when you encounter remainders or carry numbers over.

Word bank: divisor · dividend · quotient · remainder · bus stop method · calculate · share · total

1. The Fruit Stall: Max has £75 to buy boxes of apples. Each box costs £6. How many full boxes can he buy, and how much money will he have left over? (3 marks)

2. The Bakery Batch: A baker has 148 cookies to pack into bags of 8. How many full bags can be made? Show your calculation. (3 marks)

3. The Floral Display: Zara has 215 flowers. She wants to arrange them into 5 equal vases. How many flowers will be in each vase? (2 marks)

4. The Stationery Swap: Kit has 364 pencils to share equally between 7 classrooms. How many pencils does each classroom receive? (3 marks)

5. The Challenge: If you divide a 3-digit number by 4 and get a remainder of 3, what could that number be? Explain your reasoning. (4 marks)

Extension challenge: Create your own division word problem involving money (£) and ask a partner to solve it using the bus stop method. Remember to include a remainder!