

Max's Market Challenge: The Division Dash

Learning objective: To solve division problems involving 4-digit numbers by 1-digit numbers, including those with remainders, in a practical context.

Max the monkey is helping the local market traders organise their stock. Your task is to help him divide the items into equal groups. For each question, show your working out using the bus stop method (short division). If there is a remainder, write it as a whole number remainder (r).

Word bank: dividend · divisor · quotient · remainder · calculate · partition

1. A farmer brings 1,245 apples to the market. He wants to pack them into 5 large crates. How many apples will be in each crate? (2 marks)

2. Max finds 2,638 strawberries. He needs to share them equally between 6 display baskets. How many strawberries go in each basket, and how many are left over? (2 marks)

3. A baker has 3,456 bread rolls. If he puts them into trays that hold 8 rolls each, how many full trays will he have? (2 marks)

4. The total cost of 7 bags of organic flour is £1,659. How much does one bag of flour cost? (Hint: divide the total cost by 7). (2 marks)

5. Max has 4,892 sunflower seeds. He wants to plant them in 9 rows with an equal number of seeds in each. How many seeds will be in each row, and how many will be left over? (2 marks)

Draw: Draw a picture of Max the monkey standing next to the 5 crates of apples from question 1, labelling how many apples are in each crate.



Extension challenge: Choose one of your answers that had a remainder. If you were to add enough items to the original total to make the division exact (with no remainder), how many more items would you need?