Max’s Division Discovery

Learning objective: To recall and use division facts for the 3, 4, 6, 7, 8, 9, 11 and 12 multiplication tables and solve problems involving division.

Help Max the monkey solve his jungle maths puzzles by using your knowledge of times tables and division strategies. Show your working out clearly.

Max the monkey is organising a jungle feast. He has 48 shiny mangoes that he wants to share equally between 4 of his friends. He also has 35 star-fruit that he wants to put into baskets, with each basket holding 8 star-fruit. Max loves using his knowledge of inverse operations to check his answers. Remember, division is just the inverse of multiplication!

Word bank: dividend · divisor · quotient · remainder · shared equally · groups of · inverse · partition

1. Using Max's mangoes, if 48 mangoes are shared equally between 4 friends, how many mangoes does each friend receive? Show your calculation. (2 marks)

2. Max has 35 star-fruit. If he puts them into baskets of 8, how many full baskets will he have and how many star-fruit will be left over as a remainder? (2 marks)

3. If a pack of 6 monkey-nuts costs £4.50, how much would one monkey-nut cost? (Hint: Use your division skills with decimals). (2 marks)

4. Max finds 72 golden pebbles and divides them into 9 equal piles. How many pebbles are in each pile? (1 mark)

5. Explain why knowing your 8 times table helps you solve 56 ÷ 8. (2 marks)

Draw: Draw a picture of Max the monkey sharing 12 bananas equally into 3 piles to help him visualise the division sum 12 ÷ 3 = 4.

Extension challenge: Max has a basket of 100 mixed berries. He wants to divide them into groups of 12. How many full groups can he make, and what is the remainder? Can you write this as a division equation?