Max’s Magnificent Maths: Mastering Long Division

Learning objective: To divide numbers up to four digits by a two-digit number using the formal written method of long division.

Help Max the monkey solve these division puzzles. Show your working out clearly for every calculation. Remember your steps: Divide, Multiply, Subtract, Bring down, Repeat!

Word bank: dividend · divisor · quotient · remainder · long division · partitioning

1. Max has 432 shiny pebbles to share equally between 12 jars. How many pebbles go into each jar? (2 marks)

2. Calculate 625 ÷ 25. Show your long division method step-by-step. (2 marks)

3. A charity shop collected £896 to be split evenly across 14 different animal sanctuaries. How much money does each sanctuary receive? (3 marks)

4. Solve the calculation: 756 ÷ 18. Does it have a remainder? (2 marks)

5. Max needs to pack 960 apples into crates. Each crate holds 32 apples. How many crates does Max need in total? (2 marks)

Draw: Draw a picture of Max the monkey sitting on a tree branch, surrounded by piles of numbered crates and jars, looking very happy as he solves a giant long division equation written on a chalkboard.

Extension challenge: Max has 1,000 bananas. He wants to divide them into groups of 40. Write a word problem that fits this calculation and solve it. Explain what happens to any left-over bananas.