

Max's Place Value Puzzle File

Learning objective: To recognize the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).

Max the monkey has found some mysterious four-digit numbers! Use this puzzle file to break the numbers down, show their value, and solve the place value challenges. Fill in each section carefully to help Max complete his math mission.

Word bank: thousands · hundreds · tens · ones · digit · value · partition

1. The Mystery Number: Choose any four-digit number. Write it here and identify which digit is in the thousands place and which is in the tens place. (2 marks)

2. Partitioning Power: Pick a four-digit number and break it apart into thousands, hundreds, tens, and ones (e.g., $1,000 + 200 + 30 + 4$). (2 marks)

3. Value Check: In the number 7,429, what is the actual value of the digit 4? Explain how you know. (2 marks)

4. Number Riddles: Max is thinking of a number. It has 3 thousands, 0 hundreds, 8 tens, and 2 ones. What is the number? (1 mark)

5. The Comparison Challenge: Compare the numbers 4,502 and 4,520. Which one is larger and why? Use the words 'tens' or 'ones' in your answer. (2 marks)

6. Money Math: If you had £3,456, how many one-pound coins, ten-pound notes, hundred-pound notes, and thousand-pound notes would you have? (3 marks)

Extension challenge: Can you create your own four-digit number riddle for a friend to solve? Make sure to describe the value of each digit!