

Max's Number Puzzle Challenge

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

Max the monkey has found a collection of number puzzles! For each puzzle, you need to look at the clues and fill in the blanks to reveal the secret four-digit number. Use the word bank to help you describe the values of the digits.

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

1. Puzzle 1: I have 4 thousands, 2 hundreds, 8 tens, and 3 ones. What number am I? (1 mark)

2. Puzzle 2: My thousands digit is 7. My hundreds digit is 0. My tens digit is 5. My ones digit is 9. What number am I? (1 mark)

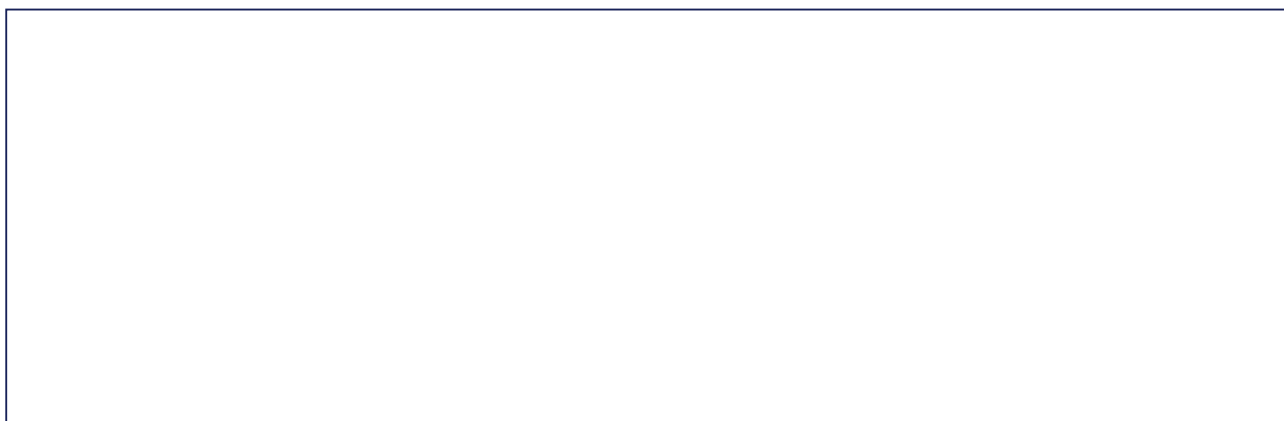
3. Puzzle 3: I am the number 3,614. What is the value of the digit 6 in this number? (2 marks)

4. Puzzle 4: I have 2 thousands, 15 hundreds, 4 tens, and 2 ones. (Careful! Think about what happens when you have more than 9 hundreds). What number am I? (2 marks)

5. Puzzle 5: I am 8,427. If I change my tens digit to a 0, what is my new number? (1 mark)

6. Puzzle 6: Max has £5,320 in his pretend treasure chest. Which digit is in the hundreds place, and what is its value? (2 marks)

Draw: Draw a place value chart (columns for thousands, hundreds, tens, and ones) and use it to represent the number 6,702 using base-ten blocks or dots.



Extension challenge: Can you create your own four-digit number riddle for a friend? Write three clues about the place value of your digits without telling them the number!