

Max the Monkey's Place Value Challenge

Learning objective: To read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.

Max the Monkey is busy organising his collection of jungle treasures. Read each question carefully and show your working out to help him solve these place value puzzles.

Max has counted 4,529,863 golden pebbles. He needs your help to understand exactly how many of each he has to keep his collection tidy.

Word bank: ten million · millions · hundred thousands · ten thousands · thousands · hundreds · tens · ones · place value · partition

1. In the number 4,529,863, what is the value of the digit 5? Write your answer in words and as a numeral. (2 marks)

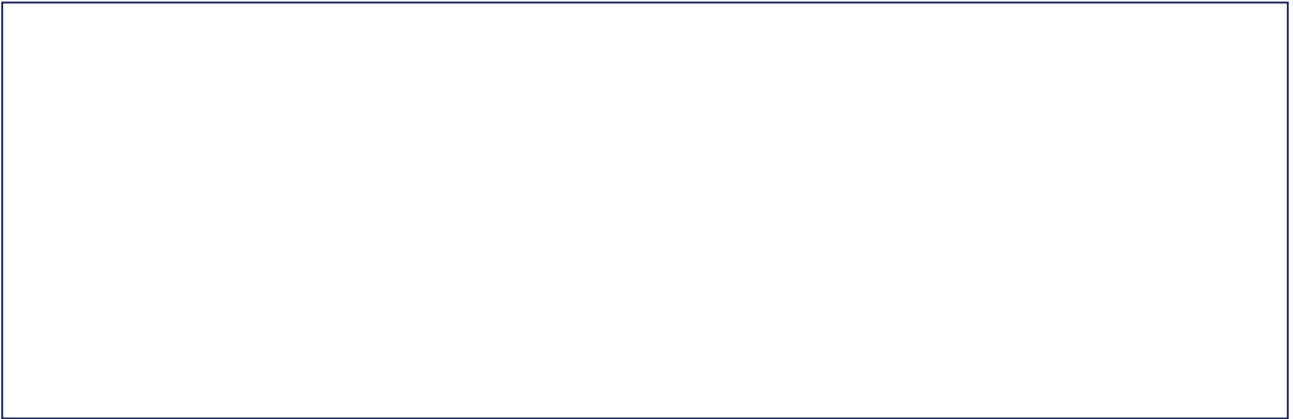
2. Max finds another pile of pebbles. He says he has $7,000,000 + 300,000 + 40,000 + 200 + 5$. Write this as a single number. (1 mark)

3. Compare these two numbers using the greater than (>) or less than (<) symbols: 8,245,900 ____ 8,249,500. Explain how you know which is larger. (2 marks)

4. Round the number 4,529,863 to the nearest 10,000. (1 mark)

5. If Max adds 1,000,000 more pebbles to his collection of 4,529,863, what will the new total be? (1 mark)

Draw: Draw a place value grid showing the number 2,305,412, using tallies or symbols to represent the millions, thousands, and ones columns.



Extension challenge: Max has a secret number. It is a seven-digit number. The millions digit is 6. The hundreds digit is 4. All other digits are 0. What is the number? Can you write it in words?