

Max's Magnificent Number Mountain

Learning objective: To read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.

Help Max the monkey solve these place value puzzles. Remember to look carefully at the position of each digit and use placeholders where necessary.

Max the monkey has collected shiny stones from the top of the Number Mountain. He needs your help to organise them by their value before he can count his total collection.

Word bank: ten-thousands · hundred-thousands · place value · digit · partition · greater than · less than

1. Max has a collection of 456,203 stones. Write this number in words. (2 marks)

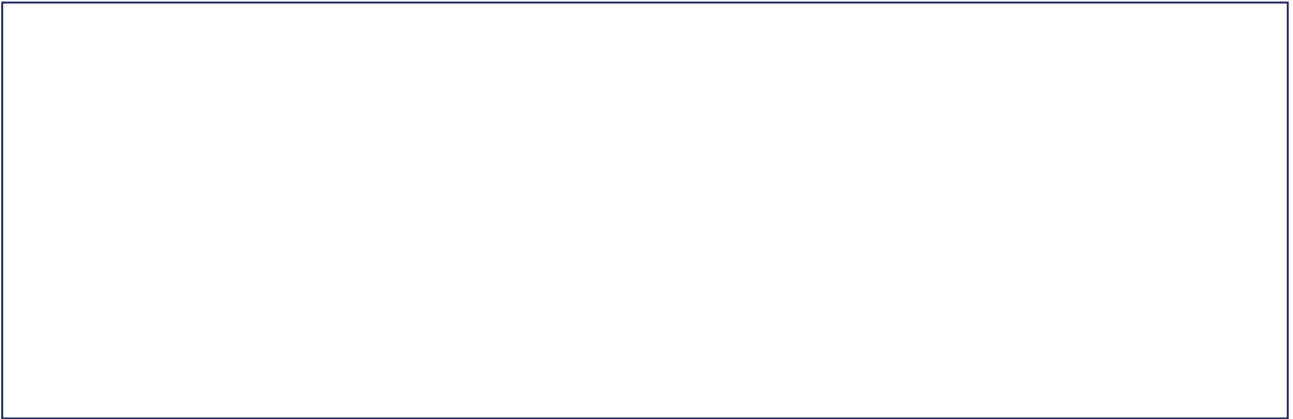
2. Look at the number 782,145. What is the value of the digit 8 in this number? (1 mark)

3. Max finds a chest with $300,000 + 40,000 + 500 + 9$ stones. Write this as a single number. (1 mark)

4. Compare these two amounts using $<$ or $>$: $678,901$ ____ $678,091$. Explain how you know which is larger. (3 marks)

5. If Max adds £10,000 to his total of £542,900, what is his new total? Show your working out. (2 marks)

Draw: Draw a place value chart showing the number 256,431, using symbols like dots for ones, sticks for tens, and squares for hundreds to help Max visualise the total.



Extension challenge: Max has the number 123,456. If he swaps the digits in the hundred-thousands place and the tens place, what is the new number? Is it larger or smaller than the original?