

Max the Monkey's Place Value Adventure

Learning objective: To identify and represent the value of each digit in a three-digit number.

Max the Monkey has found a pile of numbered coconuts! Your job is to help Max sort them out. Choose a three-digit number to investigate, then fill in the boxes below to show that you understand how place value works using hundreds, tens, and ones.

Word bank: hundreds · tens · ones · digit · value · partition · represent · total

1. The Number Chosen: Write down the three-digit number you have chosen for Max to study today. (1 mark)

2. Partitioning the Number: Break your number down into its hundreds, tens, and ones. For example, if you chose 245, you would write $200 + 40 + 5$. (2 marks)

3. Digit Value: What is the value of the digit in the tens column? Explain how you know. (2 marks)

4. Drawing the Value: If Max used base-10 blocks to show this number, how many of each block would he need? List the number of hundreds, tens, and ones. (3 marks)

5. Word Form: Write your number out in words (e.g., three hundred and twenty-one). (1 mark)

Extension challenge: Pick two different numbers. Which one is greater? Write a sentence explaining your answer using the 'greater than' ($>$) or 'less than' ($<$) symbol.