

Year 5 Mathematics: Mastering Place Value

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

Read each question carefully. Max the monkey needs your help to solve these puzzles. Show your working out clearly in the spaces provided.

Max the monkey is organising his collection of golden acorns. He has stored them in different crates, but he needs to make sure he knows exactly how many he has in each batch to keep his records tidy.

Word bank: Place value · Digit · Ten thousand · Hundred thousand · Partition · Greater than · Less than

1. Max has 456,231 acorns in his main store. Write this number in words. (2 marks)

2. What is the value of the digit '5' in the number 852,904? (1 mark)

3. Partition the number 709,145 into its individual place values (e.g., 700,000 + ...). (3 marks)

4. Max finds two more crates of acorns. Crate A has 345,678 acorns and Crate B has 345,876 acorns. Which crate has more? Explain how you know using your knowledge of place value. (4 marks)

5. Put these numbers in ascending order (smallest to largest): 123,456; 123,654; 132,456; 123,546. (3 marks)

6. Max rounds his collection of 456,231 acorns to the nearest ten thousand. What is the new number? Explain your rounding rule. (2 marks)

Extension challenge: Total: /25