

Year 4 Maths: Place Value Challenge

Learning objective: To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones), order and compare numbers, and round to the nearest 10, 100, or 1,000.

Read each question carefully. Write your answers clearly in the spaces provided. Max the Monkey is here to help you think of these as puzzles to solve!

Word bank: Thousands · Hundreds · Tens · Ones · Value · Round

1. What is the value of the underlined digit in the number 4,<u>7</u>21? (1 mark)

2. Max has found three number cards: 4,000, 300, and 7. What is the total number when these are added together? (1 mark)

3. Write the number 'six thousand, four hundred and two' in digits. (1 mark)

4. Place these numbers in order, starting with the smallest: 3,402; 3,042; 4,302; 3,204. (2 marks)

5. Use the < or > symbols to make these statements correct:

a) 5,671 ____ 5,761

b) 8,010 ____ 7,999 (2 marks)

6. Round the following numbers:

a) 452 to the nearest 10

b) 1,230 to the nearest 100

c) 7,810 to the nearest 1,000 (3 marks)

7. Max is saving up for a new telescope. He has £2,450. He wants to buy one that costs £3,100. How much more money does he need? Show your working out. (4 marks)

8. Explain how you know that the digit 5 in 5,200 has a different value than the digit 5 in 1,500. Use the words 'thousands' and 'hundreds' in your answer. (3 marks)

9. The 'Mystery Number' puzzle: I am a 4-digit number. My thousands digit is an even number less than 3. My hundreds digit is 3 more than my thousands digit. My tens digit is 0. My ones digit is the sum of my thousands and hundreds digits. What is the Mystery Number? Explain how you found it. (5 marks)

Draw: Draw a place value chart (Thousands, Hundreds, Tens, Ones) and place the number 8,314 inside it using dots or squares to represent each value.

Extension challenge: Total: /25