Max the Monkey’s Place Value Challenge

Learning objective: To demonstrate understanding of place value, partitioning numbers to 100, and comparing numbers using symbols.

Read each question carefully. Use your knowledge of tens and ones to help Max solve these maths puzzles. Show your working out where possible.

Max the monkey is gathering fruit for his friends. He has 45 bananas, 32 oranges, and 56 apples. Help Max organise his collection using your place value skills.

Word bank: partition · tens · ones · greater than · less than · equal to · digit · value

1. Max has 45 bananas. How many tens and how many ones are in this number? (2 marks)

2. Write the number 32 in words. (1 mark)

3. Using the symbols <, > or =, compare the number of bananas (45) and the number of apples (56). Explain how you know which is larger. (3 marks)

4. Max finds some more fruit. He now has 7 tens and 4 ones. What is the total number of fruit he has? (2 marks)

5. If Max has £86 in his savings jar, partition this number into tens and ones. Then, write a different way to partition the number 86 (e.g., 7 tens and 16 ones). (4 marks)

6. Max wants to buy a hat that costs £34. He has three £10 notes and five £1 coins. Does Max have enough money? Show your calculation and explain your answer. (3 marks)

7. Max is sorting his collection of 98 shells. He says, 'The digit 9 has a value of 9.' Is Max correct? Explain your reasoning using what you know about place value. (5 marks)

8. Complete the sequence: 25, 35, 45, ___, ___, ___. (3 marks)

9. Identify the value of the underlined digit in this number: 6<u>7</u>. (2 marks)

Draw: Draw a representation of the number 53 using base-ten blocks (sticks for tens and small squares for ones).

Extension challenge: Total: /25