

Max's Roman Numeral Challenge

Learning objective: To read, write, and convert Roman numerals up to 100 (C) and understand their place-value system.

Read each question carefully. Show your working out in the space provided. Max the monkey has hidden some number puzzles around the jungle—help him solve them using your knowledge of Roman numerals!

Max is organising his collection of ancient stone tablets. He has labelled them with Roman numerals, but he needs your help to make sure they are in the correct order and that he has calculated the totals correctly for his records.

Word bank: I = 1 · V = 5 · X = 10 · L = 50 · C = 100 · subtraction · addition · symbol

1. Max finds a tablet labelled 'XIV'. What number is this in Arabic numerals (our standard numbers)? (1 mark)

2. Write the number 47 as a Roman numeral. (2 marks)

3. Compare these two numbers using <, > or =. Explain your reasoning: XLIX ____ LI (3 marks)

4. Max has two piles of stones. Pile A is 'LXXV' and Pile B is 'XXIV'. If Max combines them, what is the total in Roman numerals? Show your working out. (4 marks)

5. A scroll is marked 'XCIII'. If you take away 'X' (10) from the value, what is the new number? Write your answer in Roman numerals. (3 marks)

6. Max finds a tablet that reads 'LXXXVIII'. He thinks it equals 88. Is he correct? Explain why, using your knowledge of how Roman numerals are constructed. (7 marks)

7. Max wants to create a new sign for his jungle classroom. He needs to write the number 99 in Roman numerals. Write a short guide (5 sentences) explaining to a friend how to construct 99 using the correct symbols and the 'subtraction rule'. (5 marks)

Draw: Draw a stone tablet and label it with the Roman numeral for your age.



Extension challenge: Total: /25