

CLASS VI MATHEMATICS | KNOWING OUR NUMBERS

CHAPTER ASSESSMENT | CBSE-STYLE QUESTION FORMATS

Time: 1 hour 30 minutes

Questions: 25

Maximum Marks: 50

Name: _____ Roll No.: _____ Date: _____

Instructions: All questions are compulsory. Write answers on a separate answer sheet. Show working for Q13-25. Marks are given in brackets. Calculators are not allowed. Questions progress from basic to challenging.

SECTION A | OBJECTIVE QUESTIONS

12 × 1 = 12 marks

1. Which is the smallest six-digit number? [1]
(A) 10,000 (B) 99,999 (C) 1,00,000 (D) 1,00,001
 2. What is the place value of 7 in 57,32,814? [1]
(A) 7 (B) 7,000 (C) 70,000 (D) 7,00,000
 3. Which is the greatest number? [1]
(A) 90,099 (B) 90,909 (C) 99,009 (D) 99,090
 4. Round 7,846 to the nearest hundred. [1]
(A) 7,800 (B) 7,900 (C) 8,000 (D) 7,840
 5. **Fill in the blank:** 1 crore = _____ lakh. [1]
 6. **Insert commas** in 7205406 using the International system of numeration. [1]
 7. **True or False:** Adding 1 to 9,99,999 gives 10,00,000. [1]
 8. **True or False:** The Roman numeral XL represents 60. [1]
 9. **Match the columns.** Write the two correct pairs. ($\frac{1}{2}$ mark each) [1]

Column A	Column B
(i) 1 lakh	(a) 1,000,000
(ii) 10 lakh	(b) 100,000
 10. **Very short answer:** Write "four lakh five thousand sixty" in figures. [1]
- For Q11-12, choose the correct assertion-reason option:**
 (A) Both A and R are true; R correctly explains A. (B) Both are true; R does not explain A.
 (C) A is true, but R is false. (D) A is false, but R is true.
11. **Assertion (A):** 43,216 is greater than 34,621. [1]
Reason (R): Their ten-thousands digits are 4 and 3, and $4 > 3$.
 12. **Assertion (A):** 34,650 rounds to 35,000 to the nearest thousand. [1]
Reason (R): The tens digit decides rounding to the nearest thousand.

SECTION B | SHORT ANSWERS

5 × 2 = 10 marks

13. Write 5080763 in words in the (a) Indian system and (b) International system. (1 + 1) [2]
14. Write the expanded form of 70,08,406. Also state the place value of 8. (1 + 1) [2]
15. Using 0, 3, 5, 7 and 9 exactly once in each number, form the greatest and the smallest five-digit numbers. (1 + 1) [2]
16. Arrange in ascending order: 7,08,090; 7,80,009; 7,08,900; 7,80,090. State the first place from the left that distinguishes the middle two numbers. (1 + 1) [2]
17. Write the correct Roman numeral for 49. Explain why IL is invalid. (1 + 1) [2]

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Continue answering on your answer sheet. Show each step clearly.

Q18-25 | 28 marks

SECTION C | APPLICATION QUESTIONS

4 × 3 = 12 marks

- 18.** Round each number to the nearest hundred to estimate $7,684 + 5,247$. Find the exact sum. [3]
State whether the estimate is greater or smaller, and by how much. **(1 + 1 + 1)**
- 19.** A school buys 36 boxes of pencils, with 24 pencils in each box. It distributes 275 pencils on Monday and 189 on Tuesday. Write one expression using brackets for the pencils left, and evaluate it. **(1 + 2)** [3]
- 20.** A rope is 13 m 20 cm long. Pieces of 85 cm are cut from it. Find the maximum number of complete pieces and the length left over. Show your working. **(1 + 1 + 1)** [3]
- 21.** Use the digits 0, 2, 5, 7 and 9 exactly once in each number. Form the greatest and the smallest five-digit **even** numbers. Find their difference. **(1 + 1 + 1)** [3]

SECTION D | CASE-BASED QUESTIONS

2 × 4 = 8 marks

- 22. A school reading drive** [4]

Three school libraries record their stock as shown below.

Library	Lotus School	Maple School	River School
Books available	24,685	18,750	21,565

- (a) Find the total number of books in the three libraries. **(1)**
 (b) How many more books are needed to reach a combined target of 75,000? **(1)**
 (c) A donor gives 5,000 books to the library with the fewest books. Will that library now have the most books? Justify with calculations. **(2)**
- 23. Planning an educational trip** [4]
 A school must transport 156 students and 12 teachers. Each bus has 40 passenger seats and costs ₹4,750 to hire. Everyone must have a seat. The transport budget is ₹25,000.
 (a) Find the minimum number of buses needed. Explain why one fewer bus will not be enough. **(2)**
 (b) Is the budget sufficient? Calculate the amount left over or the extra amount needed. **(2)**

SECTION E | LONG ANSWERS AND REASONING

2 × 4 = 8 marks

- 24.** A printing press produces 1,250 worksheets each day for 24 days. Of these, 1,275 worksheets are misprinted and rejected. The remaining worksheets are packed equally into 75 bundles. How many worksheets are in each bundle? Show all steps and check your answer by multiplication. [4]
- 25.** A five-digit number rounds to **45,000** to the nearest thousand. [4]
 (a) Find the smallest and the greatest possible numbers. **(2)**
 (b) Riya says, "Every such number also rounds to 50,000 to the nearest ten thousand." Is her claim correct? Use a suitable numerical example to justify your answer. **(2)**