

CLASS 7

MATHS

EXTRA QUESTIONS

Extra Questions for Class 7 Maths Chapter 1: Large Numbers Around Us – HOTS

Fresh HOTS-level extra questions for Class 7 Maths Chapter 1 (Large Numbers Around Us), with numbers not found in the NCERT book. Full worked solutions included.

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Q1 (Indian vs International conversion). Write 7,08,45,231 in both Indian and International systems, with words.

Solution: Indian: 7,08,45,231 — Seven crore eight lakh forty-five thousand two hundred thirty-one.

International: 70,845,231 — Seventy million eight hundred forty-five thousand two hundred thirty-one.

Q2 (Estimation, HOTS). A stadium's attendance over 3 days was 84,532, 91,206, and 76,890. Estimate the total by rounding each to the nearest ten-thousand, then find the exact total.

Solution: Rounded: $80,000 + 90,000 + 80,000 = 2,50,000$ (estimate). Exact: $84,532 + 91,206 + 76,890 = 2,52,628$ — close to the estimate.

Q3 (Assertion–Reason). Assertion (A): 5 crore is greater than 45 million. Reason (R): 1 crore = 10 million.

Solution: R is **true** (1 crore = 1,00,00,000 = 10,000,000 = 10 million). Using R: 5 crore = 50 million, which IS greater than 45 million, so A is also **true**, and R correctly explains A. **Both true, R explains A.**

Q4 (Place value expression). Express 3,08,047 as a sum of place values, and write it in words.

Solution: $3,08,047 = (3 \times 1,00,000) + (0 \times 10,000) + (8 \times 1,000) + (0 \times 100) + (4 \times 10) + (7 \times 1) = 3,00,000 + 8,000 + 47$. In words: **Three lakh eight thousand forty-seven.**

Q5 (Multiplication shortcut). Use a factoring shortcut to compute $250 \times 44 \times 4$.

Solution: Group as $250 \times 4 = 1000$, so $1000 \times 44 = 44,000$.

Q6 (Comparing across systems). Which is larger: 72 lakh or 7 million? By how much (in the Indian system)?

Solution: 72 lakh = 72,00,000. 7 million = 70,00,000. **72 lakh is larger**, by $72,00,000 - 70,00,000 = 2,00,000$ (2 lakh).

Q7 (Digit puzzle). Using the digits 2, 4, 6, 8 exactly once, form the largest and smallest possible 4-digit numbers, and find their difference.

Solution: Largest = **8642**. Smallest = **2468**. Difference = $8642 - 2468 = 6174$.

Q8 (Reasonable estimation). A library has 1,25,000 books. If a librarian can scan 1 book every 3 seconds, roughly how many hours would it take to scan the whole collection (8-hour workdays)?

Solution: Total seconds = $1,25,000 \times 3 = 3,75,000$ seconds. In hours: $3,75,000 \div 3600 \approx 104$ hours, or about **13 workdays** ($104 \div 8 = 13$).

Q9 (Spot the error). A student writes: “45,00,000 in the International system is forty-five hundred thousand.” Correct this.

Solution: 45,00,000 (Indian) = 4,500,000 (International grouping). This should be read as “**four million five hundred thousand**” in the International system, not “forty-five hundred thousand” (which isn't standard International-system phrasing, even though numerically 45 hundred-thousand does equal 4.5 million).

Q10 (Multi-step word problem). A company's revenue was ₹38,45,000 last year and ₹52,10,000 this year. By how much did revenue increase, and what is this increase as an estimate rounded to the nearest lakh?

Solution: Exact increase = $52,10,000 - 38,45,000 = ₹13,65,000$. Rounded to the nearest lakh: **₹14,00,000** (since 65,000 rounds up).

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