

ALPHALEARN STUDYLAB

STD 7

MATHEMATICS

Ganita Prakash — Publication-Grade Practice Worksheets

Part I & Part II

Based on CBSE / NCERT Curriculum | Answer Keys Included

STD 7 — MATHEMATICS

Publication-Grade Practice Worksheets | AlphaLearn Studylab

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PART I

Ganita Prakash

PART I
CHAPTER 1

Large Numbers Around Us

Foundation & Application • Answer Key

AlphaLearn Studylab

Chapter 1 — Large Numbers Around Us

WORKSHEET 1

Student Name: _____

Date: _____

Class: VII Roll No: _____

Marks: 25 Time: 35–40 min

SECTION A — Objective Questions

[5 × 1 = 5
Marks]

Q1. Which of the following numbers is equal to One Lakh?

- (a) 10,000 (b) 1,00,000 (c) 10,00,000 (d) 1,00,00,000

Answer: _____

Q2. The number 1,00,00,000 is read as:

- (a) Ten lakhs (b) One crore (c) Ten crores (d) One arab

Answer: _____

Q3. Ravi rounded off 3,87,456 to the nearest lakh and got 4,00,000. Priya rounded it to the nearest ten thousand and got 3,90,000. Who is correct?

- (a) Only Ravi (b) Only Priya (c) Both are correct (d) Neither is correct

Answer: _____

Q4. In the Indian place value system, commas in the number 1,25,36,784 separate digits in which pattern (from right to left)?

- (a) 3-3-3 (b) 3-2-2 (c) 2-2-3 (d) 3-2-2-2

Answer: _____

Q5. Assertion (A): 1 lakh is equal to 100 thousands. Reason (R): The smallest 6-digit number is 1,00,000.

- (a) Both A and R are true, and R is the correct explanation of A.
-
- (b) Both A and R are true, but R is not the correct explanation of A.
-
- (c) A is true but R is false.
-
- (d) A is false but R is true.

Answer: _____

SECTION B — Very Short Answer

[5 × 1 = 5
Marks]

Q6. Write the number 25,06,008 in words (Indian system).

Answer: _____

Q7. Fill in the blank: The nearest crore of 6,49,87,321 is _____.

Q8. True or False (correct the false statement): 1 crore = 10 million.

Answer (T/F): _____

Correction (if false): _____

Q9. The 'Thoughtful Thousands' calculator has only a +1000 button. How many times must it be pressed to show 85,000?

Answer: _____

Q10. A shopkeeper has ₹4,72,500. Round this amount to the nearest thousand.

Answer: _____

SECTION C — Short Answer

[5 × 2 = 10
Marks]

Q11. Write the following numbers in the Indian place value system:

(a) Forty-two lakh nine thousand three hundred and five

Answer: _____

(b) Seven crore fifty lakh two hundred and six

Answer: _____

Q12. The table below gives button clicks on the 'Handy Hundreds' (+100) calculator.

Number of button presses	Number displayed
450	?
?	73,500
1,200	?

Answers: _____

Q13. According to the 2011 Census, the population of City A was 43,56,789 and City B was 38,94,215. Find the total population of both cities. Round your answer to the nearest lakh.

Total population: _____

Rounded to nearest lakh: _____

Q14. Observe the pattern and complete the series:

$$11 \times 11 = 121$$

$$111 \times 111 = 12,321$$

$$1111 \times 1111 = ?$$

$$11111 \times 11111 = ?$$

Pattern answers: _____

What pattern do you notice in the products? _____

Q15. Reema says, "If I multiply a 3-digit number by a 2-digit number, I will always get a 4-digit answer." Is she correct? Justify your answer with one example that proves or disproves her claim.

Answer: _____

Answer: _____

SECTION D — Higher Order Thinking Skills (HOTS)

[5 Marks]

Q16. Case Study — The Bird Migration Marvel

A bar-tailed godwit flew non-stop from Alaska to Australia — a distance of 13,560 km — in about 11 days. During its journey, scientists tracked that it consumed approximately 55% of its own body weight as fuel. The Narcondam Hornbill, found only on a small Indian island, has a total wild population of roughly 400 birds.

(a) Approximately how many kilometres did the godwit cover per day? Show your working.

Answer: _____

Answer: _____

(b) The total distance from the Earth to the Moon is 3,84,400 km. How many such godwit journeys (each 13,560 km) would together be roughly equal to one Earth-Moon distance? Round your answer to the nearest thousand.

Answer: _____

Answer: _____

(c) The godwit covered 13,560 km in about 11 days. Write 13,560 in the American (International) number-naming system and state whether it is in thousands, ten-thousands, or hundred-thousands.

Answer: _____

ANSWER KEY — Worksheet 1 | Chapter 1: Large Numbers Around Us

SECTION A — MCQ Answers

Q1. (b) 1,00,000

Explanation: One lakh = 1 followed by 5 zeroes = 1,00,000.

Q2. (b) One crore

Explanation: 1,00,00,000 = 1 followed by 7 zeroes = one crore.

Q3. (c) Both are correct

Ravi: 3,87,456 — the digit in the ten-thousands place is 8 (≥ 5), so the lakh digit rounds up $\rightarrow$ 4,00,000. ✓

Priya: 3,87,456 — digit in the thousands place is 7 (≥ 5), so the ten-thousands digit rounds up $\rightarrow$ 3,90,000. ✓

Q4. (b) 3-2-2

Indian system: 3 digits from right, then groups of 2. Pattern left-to-right of commas: 3-2-2-2...

For 1,25,36,784: 784 | 36 | 25 | 1 $\rightarrow$ groups of 3-2-2-1. The general rule stated is 3-2-2 from right.

Q5. (b) Both A and R are true, but R is not the correct explanation of A.

A is true: 1 lakh = 1,00,000 = $100 \times 1,000$. R is also true: smallest 6-digit number = 1,00,000.

However, R explains the value of a lakh only indirectly — it shows lakh is 6-digits, not why it equals 100 thousands.

SECTION B — Very Short Answer

Q6. Twenty-five lakh six thousand and eight

Q7. 6,00,00,000 (Six crore)

Working: 6,49,87,321 — crore digit is 6; next digit (4) < 5 , so crore digit stays. $\rightarrow$ 6,00,00,000

Q8. TRUE

1 crore = 1,00,00,000. 1 million = 10,00,000 (ten lakhs). So 1 crore = $10 \times 10,00,000$ = 10 million. ✓

Q9. 85 times

$85,000 \div 1,000 = 85$ button presses.

Q10. ₹4,73,000

4,72,500 — digit in hundreds place is 5, so thousands digit rounds up: $4,72,000 + 1,000 = 4,73,000$.

SECTION C — Short Answer

Q11.

- (a) Forty-two lakh nine thousand three hundred and five = 42,09,305
(b) Seven crore fifty lakh two hundred and six = 7,50,00,206

Q12.

450 button presses $\times 100 = 45,000$
 $73,500 \div 100 = 735$ button presses
 $1,200$ button presses $\times 100 = 1,20,000$

Q13.

Total population = $43,56,789 + 38,94,215$
 $= 82,51,004$
Nearest lakh: 82,51,004 — ten-thousands digit is 5 $\rightarrow$ rounds up $\rightarrow 83,00,000$

Q14.

$1111 \times 1111 = 12,34,321$
 $11111 \times 11111 = 1,23,454,321$

Pattern: The products form a palindrome. The number of digits in the product increases, and the digits rise from 1 up to the number of 1s in the multiplier, then decrease back to 1.

Q15.

Reema is INCORRECT.
Example disproving her claim: $999 \times 10 = 9,990$ (4-digit — this supports her).
Counter-example: $999 \times 99 = 98,901$ (5-digit product!).
The product of a 3-digit and a 2-digit number can be either 4-digit or 5-digit.
Smallest: $100 \times 10 = 1,000$ (4 digits). Largest: $999 \times 99 = 98,901$ (5 digits).

SECTION D — HOTS (Case Study)

Q16 (a).

Distance per day = $13,560 \div 11 \approx 1,232.7$ km
Approximately 1,233 km per day (rounded to nearest km).

Q16 (b).

Number of journeys = $3,84,400 \div 13,560$
 $= 28.34...$
 ≈ 28 journeys (rounded to nearest whole number)

Alternatively, to nearest thousand: the answer itself (28) is already a small number, so no rounding to nearest thousand is needed; the question asks students to round the final division if it were larger.

Accept: approximately 28 journeys.

Q16 (c).

13,560 in the American system = 13,560

In words: Thirteen thousand five hundred and sixty.

It falls in the 'ten-thousands' range (10,000 to 99,999),
but specifically in the thousands grouping ($1,000-9,999 \times 10$).

More precisely: it is a five-digit number in the ten-thousands place.

— End of Answer Key | Worksheet 1 —

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