

Chapter 1: Large Numbers

Warm-up

Standard form – 1,42,984

Expanded form – $1,00,000 + 40,000 + 2,000 + 900 + 80 + 4$

Word form – One lakh forty-two thousand nine hundred eighty-four

Class Work (Pg 12)

1. Standard form – 72,34,46,960

Word form – Seventy-two crore thirty-four lakh forty-six thousand nine hundred sixty.

Expanded form – $700000000 + 20000000 + 3000000 + 400000 + 40000 + 6000 + 900 + 60$.

2. $45,62,93,200 =$ Forty-five crore sixty-two lakh ninety-three thousand two hundred

Place value of 2 = 2,00,000.

Exercise 1A

1. (a) $4,57,29,318 =$ Four crore fifty-seven lakh twenty-nine thousand three hundred eighteen.
(b) $8,00,00,060 =$ Eight crore sixty.
(c) $50,00,26,003 =$ Fifty crore twenty-six thousand three.
(d) $72,80,66,550 =$ Seventy-two crore eighty lakh sixty-six thousand five hundred fifty.
(e) $48,99,85,361 =$ Forty-eight crore ninety-nine lakh eighty-five thousand three hundred sixty-one.
(f) $90,00,00,009 =$ Ninety crore nine.
2. (a) Fifty-eight lakh seven thousand nine = 58,07,009.
(b) Seven crore two lakh seventy-five thousand nineteen = 7,02,75,019.
(c) Nineteen crore eighty-four lakh seven thousand three hundred = 19,84,07,300.
(d) Eighty-nine crore sixty-five lakh fifty-nine thousand six hundred eighteen = 89,65,59,618.
3. $14,96,00,000 =$ Fourteen crore ninety-six lakh.
4. (a) 5 = crores (b) 3 = lakhs (c) 7 = thousands
(d) 6 = ten thousands (e) 6 = ten crores (f) 4 = crores
5. (a) 4,00,00,000 (b) 20,00,000 (c) 60,000
(d) 300 (e) 80,00,00,000 (f) 50,000
6. (a) $7,52,418 = 700000 + 50000 + 2000 + 400 + 10 + 8$
(b) $36,12,920 = 3000000 + 600000 + 10000 + 2000 + 900 + 20$
(c) $6,98,45,137 = 60000000 + 9000000 + 800000 + 40000 + 5000 + 100 + 30 + 7$
(d) $73,00,65,614 = 700000000 + 30000000 + 60000 + 5000 + 600 + 10 + 4$
7. (a) $50,00,00,000 + 8,00,00,000 + 20,00,000 + 4,00,000 + 90,000 + 7,000 + 600 + 30 + 1$
 $= 58,24,97,631$

$$(b) 90,00,00,000 + 50,00,000 + 4,00,000 + 90,000 + 600 + 7 = 90,54,90,607$$

$$(c) 6,00,00,000 + 40,00,000 + 8,000 + 90 + 0 = 6,40,08,090$$

8. Smallest 8 digit number = 1,00,00,002 = One crore two

9. Number Successor

(a) $6,79,83,969 + 1 = 6,79,83,970$

(b) $72,99,99,999 + 1 = 73,00,00,000$

(c) $23,48,32,899 + 1 = 23,48,32,900$

10. Number Predecessor

(a) $5,92,75,863 - 1 = 5,92,75,862$

(b) $9,90,00,000 - 1 = 9,89,99,999$

(c) $45,26,99,990 - 1 = 45,26,99,989$

11. 70,09,909; 70,10,009; 70,10,109; 70,10,209

12. 86,59,317; 86,60,317; 86,61,317; 86,62,317; 86,63,317

13. $70,00,000 - 700 = 69,99,300$ is the difference

14. (b) $4,000 \times 40 = 1,60,000 =$ One lakh sixty thousand

Exercise 1B

1. (a) $38,41,920 < 38,50,098$

(c) $7,01,34,625 < 7,19,87,836$

(b) $5,01,76,003 < 6,08,92,144$

2. (a) $64, \boxed{4}93 > 64,486$

(c) $76,45,89,000 > 7\boxed{5},45,89,000$

(d) $8,00,88,018 > 8,00,88,009$

(b) $1,24,56,789 < \boxed{2},00,23,960$

(d) $14,64,920 < 1\boxed{5},26,870$

3. (a) Smallest number = 1,95,01,872; Greatest number = 22,01,00,043

(b) Smallest number = 80,00,008; Greatest number = 9,68,80,808

4. Ascending order

(a) 19,95,764; 28,28,335; 29,89,632; 35,37,286

(b) 87,98,422; 3,94,00,316; 5,46,19,717; 9,01,00,510

5. Descending order

(a) 2,00,16,930; 1,98,72,003; 20,03,568; 2,79,868

(b) 3,98,76,542; 2,23,98,761; 50,18,960; 40,00,196

6. (a) Smallest number = 10,45,678; Greatest number = 87,65,410

(b) Smallest number = 2,03,46,789; Greatest number = 9,87,64,320

7. Greatest number = 7,77,77,420

Smallest number = 2,00,00,047

8. (b)

Class Work (Pg 20)

1. (a) Five million three hundred nine thousand seven hundred twenty-eight = 5,309,728

(b) Six hundred million thirty-eight thousand nineteen = 600,038,019

2. Indian system = 41,80,02,805 – Forty-one crore eighty lakh two thousand eight hundred five.

International system = 418,002,805 – Four hundred eighteen million two thousand eight hundred five.





Exercise 1C

1. (a) $438,179,026 =$ Four hundred thirty-eight million one hundred-seventy nine thousand twenty-six.
 (b) $608,030,189 =$ Six hundred eight million thirty thousand one hundred eighty-nine.
 (c) $280,008,009 =$ Two hundred eighty million eight thousand nine.
 (d) $29,735,813 =$ Twenty-nine million seven hundred thirty-five thousand eight hundred thirteen.
2. (a) Eighty-five million three hundred two thousand six hundred = $85,302,600$
 (b) Two hundred thirty million six hundred eleven thousand nine hundred forty-nine = $230,611,949$
 (c) Three hundred seven million nine thousand two = $307,009,002$
3. (a) $92,40,12,795 =$ Ninety-two crore forty lakh twelve thousand seven hundred ninety-five.
 $924,012,795 =$ Nine hundred twenty-four million twelve thousand seven hundred ninety-five.
 (b) $10,53,40,865 =$ Ten crore fifty-three lakh forty thousand eight hundred sixty-five.
 $105,340,865 =$ One hundred five million three hundred forty thousand eight hundred sixty-five.
 (c) $63,21,00,039 =$ Sixty-three crore twenty one lakh thirty-nine.
 $632,100,039 =$ Six hundred thirty-two million one hundred thousand thirty-nine.
4. (a) Total collection = $\text{₹}4,574,775 =$ Four million five hundred seventy-four thousand seven hundred seventy-five.
 (b) $45,450,815 =$ Forty-five million four hundred fifty thousand eight hundred fifteen.
5. (a) Largest number
Indian System
 $98,74,43,210 =$ Ninety-eight crore seventy-four lakh forty-three thousand two hundred ten.
International System
 $987,443,210 =$ Nine hundred eighty-seven million four hundred forty-three thousand two hundred ten.
 (b) Smallest Number
Indian System
 $10,23,44,789 =$ Ten crore twenty-three lakh forty-four thousand seven hundred eighty-nine.
International System
 $102,344,789 =$ One hundred two million three hundred forty-four thousand seven hundred eighty-nine.
6. (b) $1,00,000 \times 10 = 1000000 = 1,000,000 = 1$ million

Class Work (Pg 23)

1. Number 8247, Rounded off to
 (a) Nearest 10 = 8250 (b) Nearest 100 = 8200 (c) Nearest thousand = 8000
2. Number 49751 Rounded off to
 (a) Nearest ten = 49750 (b) Nearest 100 = 49800 (c) Nearest thousand = 50000

Class Work (Pg 25)

1. Rounded off to nearest ten thousand
 (a) $63,809 \approx 60,000$ (b) $3,25,523 \approx 3,30,000$

2. Rounded off to nearest lakh

(a) $4,61,223 \approx 5,00,000$

3. Rounded off to nearest ten lakh

(a) $52,63,145 \approx 50,00,000$

4. Rounded off to the nearest crore.

(a) $6,57,23,215 \approx 7,00,00,000$

(b) $16,25,106 \approx 16,00,000$

(b) $67,89,289 \approx 70,00,000$

(b) $12,03,45,012 \approx 12,00,00,000$

Exercise 1D

1. Rounded off to nearest ten thousand

(a) $5,39,641 \approx 540000$

(b) $1474495 \approx 1470000$

2. Rounded off to nearest lakh

(a) $2479863 \approx 2500000$

(b) $3806792 \approx 3800000$

3. Rounded off to nearest ten lakh

(a) $75283410 \approx 75000000$

(b) $31570369 \approx 32000000$

4. Rounded off to nearest crore

(a) $107146352 \approx 110000000$

(b) $51386792 \approx 50000000$

5. Number 593702164

(a) 593702160

(b) 593702200

(c) 593702000

(d) 593700000

(e) 593700000

(f) 594000000

(g) 590000000

6. (c)

7. (b) $7,82,30,816 = 8,00,00,000 = \text{Eight crore}$

Mental Maths

1. $80,00,000 + 40,000 + 200 + 10 + 3 = 80,40,213$

2. Place value of 8 is $6,89,10,434 = 80,00,000$

3. Place value of 5 = 5000, Successor of $999 + 1 = 1000 \Rightarrow 5000 \div 1000 = 5$

4. Predecessor of $718,264,500 - 1 = 718,264,499$

5. $1,00,000 \div 5,000 = 20$

6. 7000 lakhs = 70 crores

7. $200 \div 10 = 20$

8. $\frac{1}{5}$ of 1 million = $\frac{1}{5} \times 1,000,000 = 2,00,000 = 2 \text{ lakhs}$

Chapter Test

1. (a) Four crore two lakh thirty-five thousand two hundred eighteen = 4,02,35,218
(b) Fifty-nine million three hundred seven thousand one hundred seventy-five = 59,307,175

2. (a) Largest odd number = 80,00,001; Expanded form = $8 \times 10,00,000 + 1$.
Word form – Eighty lakh one.

(b) Smallest 8 digit number = 11,125,789 = Eleven million one hundred twenty-five thousand seven hundred eighty-nine.

3. (a) $9 \times 1,00,00,000 + 4 \times 10,00,000 + 2 \times 10,000 + 8 \times 1,000 + 3 \times 100 + 7 = 9,40,28,307$

(b) $8 \times 10,00,000 + 5 \times 10,000 + 9 \times 100 + 9 = 80,50,909$

4. Difference = $90,00,000 - 900 = 89,99,100$

5. (a) 6-lakh

(b) 6-million

(c) 6-crore

6. Least to greatest – 43,21,90,634; 43,29,10,643; 43,38,09,634.

7. Population = 3,20,66,000

(a) Nearest ten thousand – 3,20,70,000

(b) Nearest crore – 3,00,00,000

8. (a)

9. (c)

10. (c)

11. (c)

12. (c)

13. (b)

Challenge!

1. Number = 13,91,684

2. Least number that can be rounded off to nearest hundred as 58200 is 58150.

Greatest number that can be rounded off to nearest hundred as 58200 is 58249.