

Lesson - 2

Large Numbers

- Smallest 4 digit number = 1000
- Greatest 4 digit number = 9999
- Successor - The number which we get by adding 1 to the given number.
- Predecessor - The number which we get by subtracting 1 from the given number.
- Smallest 5 digit number = $9999 + 1 = 10000$
(Ten thousand)
- Greatest 5 digit number = 99999 (Ninety nine thousand nine hundred ninety nine)
- Smallest 6 digit number = $99999 + 1 = 100000$ (One lakh)

- Greatest 6 digit number = 999999 (Nine lakh ninety nine thousand nine hundred ninety nine)
- Smallest 7 digit number = 999999 + 1 (Ten lakh)
- Greatest 7 digit number = 9999999 (Ninety nine lakh ninety nine thousand nine hundred ninety nine)
- Indian place value system is divided into 3 periods
— Lakhs, Thousands, Ones
- One period has 3 places — Hundreds, Tens, Ones
- Thousands period has 2 places — Ten thousands, Thousands.
- Lakhs period has 2 places — Ten lakhs, Lakhs
- Face value — It is the value of the digit itself.
Example — Face value of 2 in 210634 is 2.

- Place value - Face value \times Place
 Example: Place value of 8 in 518,46 = 8×1000
 $= 8000$

- The place value and face value of 0 is always 0.

Indian Place Value Chart

Periods \rightarrow	Lakhs		Thousands		Ones		
Places \rightarrow	Ten lakhs	Lakhs	Ten Thousands	Thousands	Hundreds	Tens	Ones
	(TL)	(L)	(T.Th)	(Th)	(H)	(T)	(O)

International Place Value Chart

Periods \rightarrow	Millions			Thousands			Ones		
Places \rightarrow	Hundred Millions	Ten Million	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	(HM)	(TM)	(M)	(H.Th)	(T.Th)	(Th)	(H)	(T)	(O)

Chapter 2: Large Numbers

Exercise 2A

1. Indian Place Value Chart

Numbers	Lakhs period		Thousands period		Ones period		
	Ten Lakhs	Lakhs	Ten Thousands	Thousands	Hundreds	Tens	Ones
(a) 8,070				8	0	7	0
(b) 90,103			9	0	1	0	3
(c) 45,678			4	5	6	7	8
(d) 3,27,891		3	2	7	8	9	1
(e) 20,15,389	2	0	1	5	3	8	9
(f) 6,17,056		6	1	7	0	5	6
(g) 35,48,009	3	5	4	8	0	0	9
(h) 75,60,034	7	5	6	0	0	3	4

2. (a) 508576

Indian place value system: 5,08,576 → Five lakh eight thousand five hundred seventy six.

International place value system: 508,576 → Five hundred eight thousand five hundred seventy six.

(b) 9708134

Indian place value system: 97,08,134 → Ninty seven lakh eight thousand one hundred thirty four.

International place value system: 9,708,134 → Nine Million seven hundred eight thousand one hundred thirty four.

(c) 200200

Indian place value system: 2,00,200 → Two lakh two hundred

International place value system: 200,200 → Two hundred thousand two hundred

(d) 6666666

Indian place value system: 66,66,666 → Sixty six lakh sixty six thousand six hundred sixty six

International place value system: 6,666,666 → Six million six hundred sixty six thousand six hundred sixty six

(e) 560001

Indian place value system: 5,60,001 → Five lakh sixty thousand one
International place value system: 560,001 → Five hundred thousand one.

(f) 576016

Indian place value system: 5,76,016 → Five lakh seventy six thousand sixteen
International place value system: 576,016 → Five hundred seventy six thousand sixteen.

4. Number	Place Value
(a) <u>7</u> 652408	7000000
(b) 8 <u>3</u> 10596	300000
(c) 4359 <u>8</u> 1	80
(d) 260 <u>3</u> 04	300
(e) 989 <u>8</u> 413	90000
(f) <u>5</u> 213680	5000000
(g) 61 <u>2</u> 489	2000
(h) 108 <u>9</u> 1	90

5. Place value of 7 = 70000

Face value of 7 = 7

Difference = 70000 - 7

= 69993

6. Place value of 7 = 700000

Place value of 2 = 200

Difference = 700000 - 200

= 699800

7. Place value of 6 in 4896300 = 6000

Place value of 6 in 1580635 = 600

Difference = 6000 - 600 = 5400

8. (a) $80000 + 4000 + 300 + 90 + 5$ (b) $300000 + 20000 + 9000 + 10$
(c) $200000 + 20000 + 3000 + 500 + 60 + 7$
(d) $1000000 + 600000 + 80000 + 400 + 3$
(e) $5000000 + 900000 + 80000 + 1000 + 200 + 70 + 6$
(f) $9000000 + 60000 + 300 + 10 + 7$
(g) $4000000 + 200000 + 70000 + 8000 + 100 + 50$
(h) $1000000 + 20000 + 300 + 4$

Review Time

- (a) 8,49,416 (b) 67,38,070
- Place value of 3 in 8345791 = 300000
Place value of 7 in 8345791 = 700
Sum = 300000 + 700 = 300700
- Greatest 5-digit number = 99999
Successor = 99999 + 1 = 100000
- (a) 2345681 < 2365418 < 2536841 < 2563481 < 3265814
(b) 7007070 < 7007077 < 7007777 < 7070777 < 7707070
- (a) 4765302 > 4756023 > 4702356 > 4570236 > 4023756
(b) 9999222 > 9292929 > 2992929 > 2929292 > 2222999