

Chapter 1: - Number System

Exercise 1(A)

I. Fill in the blanks:

- (i) In 24673, the place value of 6 is 600
- (ii) In 8039, the place value of 8 is 8000
- (iii) In 325648, the local value of 2 is 20000
- (iv) In 6439, the local value of 3 is 30

2. Find the difference between the place values of 3 and 5 in the number 3945

place value of 3 is 3,000

place value of 5 is 5.

difference between the place values are $3,000 - 5 = \underline{2995}$

3. In the number 40562,

- (i) the local value of 5 = 500
- (ii) the face value of 6 = 6
- (iii) the sum of the place value of 5 and the face value of 6 =
place value of 5 in 40562 is 500 and the ~~place~~ face value of 6 in 40562 is 6. i.e. $500 + 6 = \underline{506}$

4. Find the difference in the place values of the two sevens in the number $873,514$

Place value of sevens in $873,514$ is $70,000$ and 70 .

Difference between $70,000$ and 70

$$\begin{array}{r} 70,000 \\ - 70 \\ \hline 69,930 \end{array}$$

5. Find the difference between the face value of 9 and the face value of 4 in the number 324798

face value of 9 is 9
face value of 4 is 4
 $9 - 4 = 5$

Exercise 1. (B)

1. Use a place value chart to compare the given numbers and write them in descending order

543287 ; 5482900 ; 2732940 ;
 43877 ; 78396 and 4999

TL	L	TTh	Th	H	T	O
5	4	8	3	2	8	7
2	7	3	2	9	4	0
		4	3	8	7	7
		7	8	3	9	6
			4	9	9	9

$$5482900 > 2732940 > 543287 > 78396 > 43877 > 4999$$

2. Form the greatest and the smallest 4-digit numbers using the given digits without repetition.

(i) 3, 7, 2 and 5

Greatest 4 digit number = 7532
Smallest 4 digit number = 2357

(ii) 6, 1, 4 and 9

Greatest 4 digit number = 9641
Smallest 4 digit number = 1469

(iii) 7, 0, 4 and 2

Greatest = 7420
Smallest = 2047

8. Form the greatest and the smallest 4-digit numbers using any four different digits, with the condition that digit 5 is always at the ten's place.

Greatest 4 digit number - 9857.
Smallest 4 digit number - 1052.

9 Find the sum of the largest and the smallest four-digit numbers.
Largest 4-digit number - 9999
Smallest 4-digit number - 1000

$$\begin{array}{r} 9999 \\ + 1000 \\ \hline 10999 \end{array}$$

10. How many four-digit numbers are there between 999 and 3000?
Ans: 2000.

(ii) How many four-digit numbers are there between 99 and 3000?
Ans: 2000.

10. Form the greatest and the smallest 4-digit numbers using the digits 5, 4, 7 and 9 (without repeating)

the digits) and with the condition that:
7 is at the ones place.
9547 - Greatest
4597 - Smallest

(ii) 9 is at the tens place.
7594 - Greatest
4597 - Smallest

(iii) 4 is at the hundreds place.
9475 - Greatest
5479 - Smallest