Chapter- 1

Number System

WORKSHEET

1. The difference between the largest 5-digit number and the largest 5-digit number with three distinct digits is

   (a) 10   (b) 10012   ✓ 12   (d) 123

2. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is

   (a) 9652   (b) 9562   (c) 9659   ✓ d) 9965

3. The largest 5-digit number having three different digits is

   (a) 98978   (b) 99897   ✓ 99987   (d) 98799

4. Compare the numbers 9524420 and 9528420.   9524420 $\boxed{<}$ 9528420

5. What is the smallest 3-digit number with unique digits? Ans - 102

6. What is the smallest 3-digit number which does not change if digits are written in reverse? Ans-101

7. Arrange the numbers 5949107, 3578160, 3808761, 1596496, 9524420, 5446837, 6174985 in ascending order. Ans - 1596496, 3578160, 3808761, 5446837, 5949107, 6174985, 9524420

8. Arrange the numbers 5977333, 2049014, 9798934, 3440557, 544696, 5655237, 3446116 in descending order. Ans - 9798934, 5977333, 5655237, 3446116, 3440557, 2049014, 544696.

9.   Answer the following:

   i)   Write the smallest 5 digits number having two different digits. A - 10,000

   ii)   Write the smallest 6 digit number having three different digits. A - 100002

   iii)   Write the largest 7 digits number having three different digits. 99,99,987

10. State true or false

   i)   The largest six digit telephone number that can be formed by using digits 5, 3, 4, 7, 0, 8 only once is 875403. - False

   ii)   The largest 4-digit number formed by the digits 6, 7, 0, 9 using each digit only once is 9760. - True

iii) The smallest 4-digit number is the successor of the largest 3-digit number. **True**

11. Find the smallest and largest no

Smallest Number	Largest Number
18	59785
100	89423
111	75284
124	12002

i) 382, 4972, 18, 59785, 750..

ii) 1473, 89423, 100, 5000, 310.

iii). 1834, 75284, 111, 2333, 450

iv). 2853, 7691, 9999, 12002, 124.

12. Arrange the following numbers in ascending order:

i) 4017, 25134, 6732, 19547, 15012   4017, 6732, 15012, 19547, 25134

ii) 5674, 2019, 56107, 76906, 2199   2019, 2199, 5674, 56107, 76906

13. Arrange the following numbers in descending order

i) 65137, 3019, 43850, 26197, 25091   65137, 43850, 26197, 25091, 3019

ii) 7326, 2417, 4972, 62253, 73317   73317, 62253, 7326, 4972, 2417

14. A machine on an average manufactures 2825 screws a day. How many screws did it produce in the month of January 2006?   2825 × 31 = 87,575 screws were produced in January

15. The difference between two numbers is 983563. If the greater number is 1398357, find the smaller number.   Other Number = 4,14,794

16. The total mass of 8 packets each of same size is 42 kg 400 gm. What is the mass of each such packet?   weight of each packet is 5 kg 300 gram.

17. Mr. Singh saves Rs 250 per month. How much money will he save in 3 years?   ₹ 9,000

18. A merchant had Rs 78592 with her. She placed an order for purchasing 40 radio sets at Rs 1200 each. How much money will remain with her after purchase? ₹30,592

19. Medicine is packed in boxes each weighing 4 kg 500 gm. How many such boxes can be loaded in a van which cannot carry beyond 800 kg? Ans - 177 boxes

20. Shankar is a famous cricket player. He has so far scored 6980, runs in test matches. He wishes to complete 10000 runs. How many more runs does he need? **3020 runs**

21. A vessel has 4 litres and 500 ml of curd. In how many glasses, each of 25 ml capacity can it be filled? Also find in how many glasses, each of 50 ml capacity can it be filled? **180 and 90 glasses**

22. A mobile number consists of ten digits. The first four digits of the number are 9, 9,8 and 7. The last three digits are 3.5 and 5. The remaining digits are distinct and make the mobile number, the greatest possible number. What are these digits? **6, 4, 2 and 0.**

23. A book exhibition was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectively 1094, 1812, 2050 and 2751. Find the total number of tickets sold on all the four days. . **7707**

24. A merchant had Rs 78,592 with her. She placed an order for purchasing 40 radio sets at Rs 1200 each. How much money will remain with her after the purchase? **₹ 30,592**

25. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer? **65,124**