

H.W.  
1/6/22

## Chapter-1 (Number System)

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### 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      c) 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      c) 99987      d) 98799

4) Compare the numbers - 9524420 & 9528420

Ans) 9524420  $<$  9528420

5) What is the smallest 3-digit number with unique digits?

Ans) 123

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

a) Write the smallest 5 digit numbers having two different digits.

Ans) 10,000

b) Write the smallest 6 digit numbers having three different digits.

Ans) 1,00,002

c) Write the largest 7 digit numbers having three different digits.

Ans) 9876543

10) State true or false

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

Ans) False

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

Ans) True

c) The smallest 4-digit number is the successor of the largest 3-digit number.

Ans) True

ii) Find the smallest and largest no.

a) 382, 4972, 18, 59785, 750

Ans) smallest - 18  
largest - 59785

b) 113, 89423, 100, 5000, 310

Ans) smallest - 100  
largest - 89423

c) 1834, 75284, 111, 2333, 450

Ans) smallest - 111  
largest - 75284

d) 2853, 7691, 9999, 12002, 124

Ans) Smallest - 124  
Greatest - 12002

12) Arrange the following numbers in ascending order:

i) 4017, 25134, 6732, 19547, 15012

Ans)  $4017 < 6732 < 15012 < 19547 < 25134$

ii) 5674, 2019, 56107, 76906, 2199

Ans)  $2019 < 2199 < 5674 < 56107 < 76906$

13) Arrange the following numbers in descending order:

i) 65137, 3019, 43850, 26197, 25091

Ans)  $65137 > 43850 > 26197 > 25091 > 3019$

ii) 7326, 2417, 4972, 62253, 73317

Ans) ~~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 <sup>month</sup> of January 2006?

15) The difference between two numbers is 983563. If the greater number is 1398357, find the smaller number.

16) The total mass of 8 packets each of same size is  $42\text{ kg } 400\text{ gm}$ . What is the mass of each such packet?

17) Mr. Singh save Rs. 250 per month. How much money will he save in 3 years?

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

19) Medicine is packed in boxes each weighing  $4\text{ kg } 500\text{ gm}$ . How many such boxes can be loaded in a van which cannot carry beyond  $800\text{ kg}$ ?

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?

21) A vessel has 4 litres and 500ml 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?

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.

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The remaining digits are distinct and make the mobile number, the greatest possible number. What are these digits?

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 numbers of tickets sold on all the four days.

24) A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?

### Answers

14) Screws manufactured in one day = 2825  
No. of days in January = 31

Screws manufactured in the month of January =  $31 \times 2825$   
= 87575

So, the machine manufactures 87575 screws in the month of January 2006.

15) The difference of two nos = 983563  
Greater no. = 1398357

$$\begin{array}{r} 1398357 \\ - 983563 \\ \hline 414794 \end{array}$$

Hence, 414794 is the other number.

$$16) \text{ Mass of 8 packets} = 42 \text{ kg } 400 \text{ gm}$$

$$= 42400 \text{ gm}$$

$$\text{One packet mass} = 42400 \div 8$$

$$= 5300 \text{ gm}$$

Therefore, mass of one packet is 5300 gm or 5 kg 300 gm.

$$17) \text{ Mr. Singh saves every month} = ₹ 250$$

$$\text{One year have days} = 365 \text{ days or } 12 \text{ month}$$

$$\text{His saving in 3 years} = (12 \times 3) \times 250$$

$$= 36 \times 250$$

$$= ₹ 9000$$

So, he save ₹ 9000 in 3 years.

$$18) \text{ Total money she had} = ₹ 78592$$

$$\text{Cost of one radio set} = ₹ 1200$$

$$\text{Cost of 40 radio set} = 1200 \times 40$$

$$= ₹ 48000$$

$$\text{Money remaining with her} = 78592 - 48000$$

$$= ₹ 30592$$

So, ₹ 30592 is remaining with her.

$$19) \text{ Medicine packed in box weighs} = 4 \text{ kg } 500 \text{ g}$$

$$= 4500 \text{ g}$$

The truck cannot load more than = 800 kg or 800,000g

Boxes that can be loaded in the truck =  $800000 \div 4500$

So, it can load 177 boxes of medicine each weighing 4kg 500g.

20) Shankar has scored runs = 6980  
His wish is to complete runs = 10,000

Runs left to score =  $10000 - 6980$   
= 3,020

He need to score more 3020 runs to fulfill his wish.

21) Each Vessel contains ~~card~~ = 4 l 500 ml  
= 4500 ml

No. of vessel can be filled with each capacity  
25 ml =  $4500 \div 25$   
= 180

No. of vessel can be filled with each capacity  
50 ml =  $4500 \div 50$   
= 90

22) No. of digits in the mobile number = 10  
First four digits are = 9, 9, 8, 7  
last three digits are = 3, 5, 5  
remaining digits that need to be included in the number = 1, 2, 4, 6, 0



largest no. among them = 6, 4, 2

9 9 8 7 6 4 2 3 5 5

Therefore, the greatest possible number is 9987642355  
and the digits are 6, 4, 2.

23) Ticket sold on first day = 1094

Ticket sold on second day = 1812

Ticket sold on third day = 2050

Ticket sold on fourth day = 2751

Total sale of ticket =  $1094 + 1812 + 2050 + 2751$   
= 7707

24) The student multiplied no. =  $7236 \times 65$   
= ~~470340~~ 470340

Correct numbers to be multiplied =  $7236 \times 56$   
= 405216

Difference between the correct and wrong  
answer =  $470340 - 405216$   
= 65,124

So, the number is greater by 65,124.