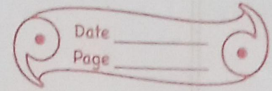


CHAPTER-1

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 c) 12 d) 123

2. The largest 4-digit 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 digit is

a) 98978 b) 99897 c) 99987 d) 98799.

4. Compare the numbers 9524420 and 9528420.

Ans- The number 9528420 is greater than the number 9524420.

5. What is the Smallest three-digit with unique digits. ~~ans~~

Ans- The smallest three-digit with unique digits is 102.

6. What is the Smallest 3-digit number which does not change if digit are written in reverse.

Ans The Smallest 3-digit number which does not change if digit are written in reverse is 101.

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

Ans- 1596496, 3578160, 3808761, 5446837, 5949107, 6174985 and 9524420.

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

Ans- 9798934, 5655237, 3440557, 544696.

9. Answer the following:

i) Write the smallest 5 digit number having two different digits

Ans- 10,000

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

Ans- 1,00,000

iii) Write the largest 7 digit number having three different digits.

Ans- 99,99,999

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. F

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

iii) The Smallest 4-digit number is the Successor largest 3-digit number. 7.

11. Find the Smallest and largest no

i) 382, 4972, 18, 59785, 750

Ans- The Smallest number = 18

The largest number = 59785

ii) 1473, 89423, 100, 5006, 310

Ans- The Smallest number = 100

The largest number = 89423

iii) 1834, 75,284, 111, 2333, 450

Ans- The Smallest number = 111

The largest number = 75,284

iv) 2853, 7691, 9999, 12002, 124

Ans- The Smallest number = 124

The largest number = 12,002

12. Arrange the following numbers in ascending order:

i) 4017, 25134, 6732, 19547, 13012

Ans- 4017, 6732, 13012, 25134, 19547.

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- ~~83850~~, 65137, 23,850, 26197, 3019, 25091

ii) 7326, 2417, 4972, 62253, 73317
Ans- 73317, 62253, 7326, 4972, 2417.

14. Number of screw a machine make a day = 2825

January has month = 31

Total number of screw a machine produce in the month of January 2006 Rs =

$$2825 \times 31 = 87575$$

$$\begin{array}{r} 2825 \\ \times 31 \\ \hline 2825 \\ 84750 \\ \hline 87575 \end{array}$$

So the total number of screw a machine produce is 87,575.

15. The difference between two numbers = 983563.

The greater number = 1398357.

The Smaller number = 1398357

So the Smaller number is $\frac{983563}{414794}$

16. The total mass of 8 packets of same size = 42 kg 400 g
The total mass of each packet = $42400 \div 8$

$$\begin{array}{r} 5300 \\ 8 \overline{) 42400} \\ \underline{40} \\ 24 \\ \underline{24} \\ 00 \\ \underline{0} \\ 00 \\ \underline{0} \\ 0 \end{array}$$

So, the total mass of each packet is 5 kg 300 g.

17. Mr. Singh saves money per month = Rs. 250.
He saves money in one day = $250 \div 30$
= 8.33

$$\begin{array}{r} 8.3 \\ 3 \overline{) 25} \\ \underline{24} \\ 10 \\ \underline{9} \\ 1 \end{array}$$

Three years = 365×3
= 1095 days

$$\begin{array}{r} 365 \\ \times 3 \\ \hline 1095 \end{array}$$

He saves money in 3 years = 1095×8.33
= 9,121.35.

So, he saves ₹ 9,121.35 in 3 years.

18. Total money a merchant had with her = 78592
 Costs of one radio $\text{Rs} = 1200 \times 40$
 The money will remain with her 1200
 after purchase = $78592 - 42000$

$$\begin{array}{r} 78592 \\ - 42000 \\ \hline 36592 \end{array} \qquad \begin{array}{r} 1200 \\ 40 \\ \hline 0000 \\ 42000 \\ \hline 42000 \end{array}$$

So, 36,592 money will remain with her after purchase.

19. Weight of each Medicines boxes = 4 kg 500 g.
 Boxes can be loaded in the = 40500 g
 van = $8,00,000 \text{ g} - 40500 \text{ g}$

So, the Boxes cannot be loaded in the van is 8,00,000 kg.

20. Shankar has scored ^{in a match} = 6980.
 He wishes to complete = 10,000 runs.
 The run he need = $10,000 - 6980$

$$\begin{array}{r} 10000 \\ - 6980 \\ \hline 3020 \end{array} \quad \text{So, he need 3020 runs to complete 10,000 runs.}$$

21. A Vessel has curd = 4 l and 500 ml
 = 4500 ml

Each of 25 ml Capacity can it be filled = $4500 \div 25$
 = 180

So, 180 vessel can be filled each of 25 ml.

$$25 \overline{) 4500}$$

$$\begin{array}{r} 25 \\ - 25 \\ \hline 000 \end{array}$$

$$\begin{array}{r} 200 \\ - 200 \\ \hline 000 \end{array}$$

Each of 50 ml capacity can it be filled $= 4500 \div 50$
 $= 90$

$$\begin{array}{r} 90 \\ 50 \overline{) 4500} \\ \underline{450} \\ 00 \end{array}$$

So, 90 vessel can be filled each of 50 ml.

22.

23. Number of sold at the counter on first = 1094

Second = 1812

third = 2050

final day = 2751

total number of tickets sold on
all the four days = 7707

$$\begin{array}{r} 1094 \\ 1812 \\ 2050 \\ 2751 \\ \hline 7707 \end{array}$$

So, 7707 numbers of book sold out in four days.

$$\begin{array}{r} 25. \times 7236 \\ \underline{65} \end{array}$$

$$\begin{array}{r} 36180 \\ 434160 \\ \hline 470340 \end{array}$$

$$\begin{array}{r} \times 7236 \\ \underline{56} \end{array}$$

$$\begin{array}{r} 43416 \\ 361800 \\ \hline 405216 \end{array}$$

$$\begin{array}{r} - 4,76,340 \\ \underline{4,05,216} \\ 65,124 \end{array}$$

So, 65,124 is greater than the correct answer.