WORKSHEET

Number System

(1) The difference between the largest 5-digit numbers and the largest 5-digit number with three distinct digits is
(c) 12

(2) The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is
(d) 9965

(3) The largest 5-digit number having three different digits is
(c) 99987

(4) Compare the number 9524420 and 9528420
Ans 9524420 < 9528420

(5) What is the smallest 3-digit 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 number 5949107, 3578160, 1596496, 9524420, 5446837, 6174985 in ascending order.
Ans 1596496 < 3578160 < 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.

Ans 10,000

(ii) write the smallest 6-digit number having three different digits.

Ans 100002

(iii) write the largest 7-digits number having three different digits.

Ans 9999987

(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.

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

Ans largest no. - 59,785
Smallest no. - 18

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

Ans largest no - 89423
smallest no. - 100

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

Ans largest no. - 75284
Smallest no. - 111

(iv) 2853, 7691, 9999, 12,002, 124

Ans largest no - 12,002
Smallest no. - 124

(12) Arrange the following numbers in ascending order.

(i) 4,017, 25,134, 6,732, 19,547, 15,012

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 > 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?

Ans No. of screws manufactured by a machine in a day = 2825

No. of days in month of January = 31 days

No. of screws will be ~~manufactured~~ produce in the month of January 2006 = 2825 × 31 = 87,575

Thus, 87,575 screws will be produce in the month of January 2006.

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

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

Ans → 414794

(16) The total mass of 8 Packets each of same size is 42 kg 400gm. What is the mass of each such Packet?

Ans mass of 8 Packets = 42 kg 400gm = 42400g

mass of 1 Packet = 42400 ÷ 8 = 5300g

5300g ÷ 1000 = ~~5.300~~ 5 kg 300g

Thus, The mass of each such Packet is 5 kg 300g

(17) Mr. Singh saves RS. 250 per month. How much money will be save in 3 years?

Ans 1 year = 12 month

3 year = 12 × 3 = 36 month

cost money saved by mr. Singh per month = ₹ 250

money saved in 3 year = 250 × 36 = 9000

Thus, ~~mr. singh saves~~ ₹9,000 will be save in 3 year.

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

Ans ~~money~~ cost A merchant had = ₹ 78592

cost of 1 radio = ₹1200

cost of 40 radio = 1200 × 40 = 48,000

money left with merchant = 78592 − 48000 = 30592

Thus, ₹ 30592 is left with the merchant.

(19) Medicine is packed in boxes each weighing 4kg 500 g. How many such boxes can be loaded in a van which cannot carry beyond 800 kg?

Ans weight of 1 medicince boxe = 4kg 500g

Van can load ~~boxes~~ weight beyond 800kg

4kg 500g = 4500g

800kg = 800000g

800000 ÷ 4500 = 2-177

4500 × 177 = 796,500 g

Thus, 177 such boxes can be loaded in the van.

(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 ~~me~~ need?

Ans
$$\begin{array}{r} 10000 \\ -\ 6980 \\ \hline 3020 \text{ runs} \end{array}$$

Thus, he needs more 3020 runs.

~~(21) A vessel has 4 litre~~

(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?

Ans Capacity of curd = 4 L 500 mL = 4500 mL
curd filled ~~each~~ → in glasses of 25 ml = 180 mL
curd filled in glasses of 50 m = 90 mL

(22) ~~9987641553~~ 9987642355

(23)
$$\begin{array}{r} 1094 \\ +1812 \\ 2050 \\ 2751 \\ \hline 7707 \end{array}$$

Ans → 7707

(24) ₹30592

(25) 65124