

Ch-1

Number system

Worksheet

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

is

a) 10 b) 10012 c) 112 ~~d) 123~~

2 The largest 4-digit number, using any one digit twice, from digit 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 ~~d) 99987~~

d) 98799

4 Compare the number 9524420 and 9528420

Ans 9528420 is greater than 9524420

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

Ans 987

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 and ~~100468~~ 6174985 in ascending order.

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

8 Arrange the numbers 8979333, 2049014, 979834, 3440557, 544696, 8655237 and 3446116 in descending order.

Ans 89798934, 5977333, 8655237, 3446116, 3440557, 2049014 and 544696.

9 Answer the following

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

Ans ~~10000~~ 10,000

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

Ans 100002

iii) Write the largest 7-digit number having three different digit

Ans 9999987

10 State true or false

i) The largest six digit telephone number that can be formed by using digit 5, 3, 9, 7, 0, 8 only once is 875403.

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

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

11. Find the smallest and number

i) 382, 9992, 18, 59785, 750.

Ans Smallest - 18

Largest - 59785

ii) 1473, 89423, 100, 500, 310.

Ans Smallest - 100

Largest - 89423

iii). 1834, 75284, 111, 2333, 950

Ans Smallest - 111

Largest - 75284

iv) 2853, 7691, 9999, 120002, 124.

Ans Smallest - 124

Largest - 12002

12 Arrange the following numbers in ascending order:

i) 4017, 25134, 6732, 19547, 15012

Ans ~~4017~~, 6732, 15012, 19547, 25134

ii) 5674, 2079, 56107, 76906, 2199

Ans 2079, 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

screw a day. How many screws did it produce in

the month of January 2006?

Ans A machine manufacture screw a day = 2825

Having day in the month of January = 31

~~Screw~~ Screw machine manufacture in January = 2825×31

= 87575

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

The difference between two numbers = 983563

The greater number = 1398357

The smaller number = ~~983563~~ 1398357 - 983563
= 1299794

$$\begin{array}{r} 1398357 \\ - 983563 \\ \hline 1299794 \end{array}$$

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

Ans - The mass of 8 packet = 42 kg 400 gm

Each packet mass = $42400 \text{ g} \div 8 = 5300 \text{ g}$

$$\begin{array}{r} 65800 \\ 8 \overline{) 42400} \\ \underline{-40} \\ 24 \\ \underline{-24} \\ 000 \end{array}$$

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

Ans: Mr. Singh saves per month = Rs 250

3 years have months = $12 \times 3 = 36$ m

Money he will save in 3 years = $Rs\ 250 \times 36 =$

$$\begin{array}{r}
 250 \\
 \times 36 \\
 \hline
 1500 \\
 + 7500 \\
 \hline
 9000
 \end{array}$$

18 A merchant 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 purchase?

Ans: A merchant with money with her = Rs 78 592

Placed order purchasing radio set = 40

Amount of each radio = 1200

Cost of 40 radio = $40 \times 1200 = 48,000$

$$\begin{aligned} \text{Money he saved with her} &= 78,592 - 48,000 \\ &= 30,592 \end{aligned}$$

19. Medicine is packed in boxes, each weighing $4\frac{1}{2}$ kg 500 g. How ~~many~~ many such boxes can be loaded in a van which cannot carry beyond 800 kg?

Ans Weight of a box packed with Medicine = $4\frac{1}{2}$ kg 500 g

Boxed loaded a van which cannot carry beyond 800 kg

$$4500\text{ g} \div 800000 = 177$$

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?

Ans Shankar has scored in test matches = 6980

$$\begin{aligned} \text{Runs needed to complete } 10000 &= 10000 - 6980 \\ &= 3020 \end{aligned}$$

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

Ans A vessel has curd = 4 litres 500 ml

A glass have capacity = 25 ml

$$\text{Total glasses will be filled} = 4500 \text{ ml} \div 25 \text{ ml} = 180$$

$$\begin{array}{r} 180 \\ 25 \overline{) 4500} \\ \underline{-25} \\ 200 \\ \underline{-200} \\ 00 \end{array}$$

Capacity of a glass = 50ml

Q Total glass can be filled = $4500 \text{ ml} \div 50 = 90$

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

Q

22. A mobile number consists of ten digit. The first four digit of the number are 9, 9, 8 and 7. The last three digit are 3, 5 and 5. The remaining digit are distinct and make the mobile number, the greatest possible number, what are these digit?

Ans - Middle three digit = 9 9 4

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.

Ans Ticket sold in the first day = 1094

second day = 1812

third day = 2050

Last day = 2751

Total ticket sold in four day = $1094 + 1812 + 2050 + 2751$

= 9707

$$\begin{array}{r}
 1094 \\
 1812 \\
 2050 \\
 + 2751 \\
 \hline
 9707
 \end{array}$$

24 A merchant had Rs 78,592, with her. She placed orders for purchasing 40 radio sets at Rs 1200 each.

How many money will remain with her after the purchase

Ans Merchant had money with her = ₹ 78,592

Placed order of radio set = 40

Amount of each radio = ₹ 1200

Cost of 40 radio = $40 \times 1200 = 48,000$

Money he saved with her. = $78,592 - 48,000$

$$= 30,592$$

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

Ans The student multiplied answer = 7236×65

$$= 470340$$

$$\begin{array}{r} 7236 \\ \times 65 \\ \hline 36180 \\ 434160 \\ \hline 470340 \end{array}$$

20 Student have to multiply answer = 7236×56

$$= \begin{array}{r} 7236 \\ \times 56 \\ \hline 43416 \\ +361800 \\ \hline 405216 \end{array}$$

30 Answer greater than the correct answer =

$$470340 - 405216 = 65124$$