

#### **NUMBER SYSTEM**

**SUBJECT: MATHEMATICS** 

**CHAPTER NUMBER: 01** 

**CHAPTER NAME: NUMBER SYSTEM** 

SUBTOPIC: PROBLRM SOLVING BASED ON COMPARISON OF NUMBERS

**PERIOD NO: 3** 

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# **Learning outcome**

- ☐ Students will be able to solve problems related to comparison of numbers.
- ☐ Students will be able to write given numbers in ascending and descending order.
- ☐ Students will develop application skill.



#### Previous Knowledge Test

Q1. What is the smallest 3-digit number which does not change if digits are written in reverse?

Q2. The largest 5-digit number having three different digits is

- (a) 98978
- (b) 99897
- (c) 99987
- (d) 98799

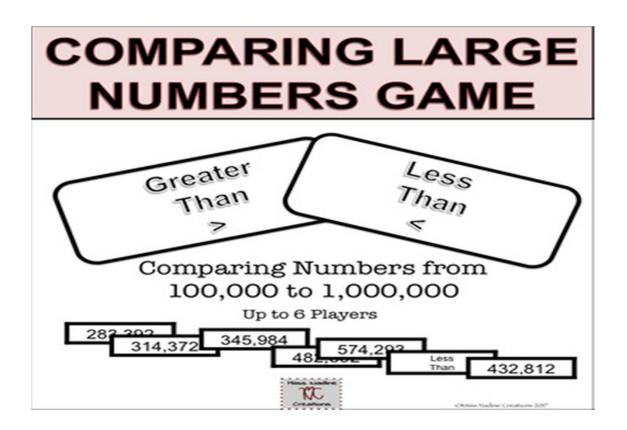
Q3. The difference between the largest 5-digit number and the largest 5-digit number with three distinct digits is

(a) 10

- (b) 10012 (c) 12

(d) 123

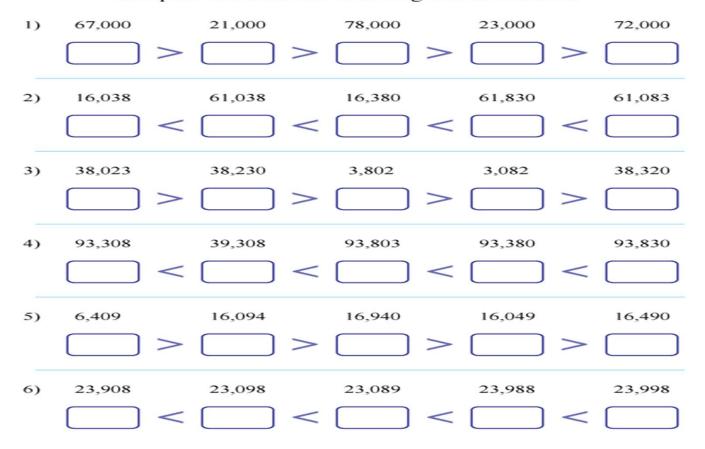
#### Lets know more about numbers





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Compare and order the following sets of numbers.





# **Problem Solving Based on Comparison**

Q1. Find the sum of largest 5 digit number and largest 4 digit number.

Ans: smallest 5 digit number =99,999

largest 4digit number = 9,999

sum of smallest 5 digit number and largest 4digit number

=99,999+9,999

=1,09,998.



## **Evaluation Question**

Q14. Find the greatest and the smallest five-digit numbers with 8 in hundred's place and with all the digits different.

#### Solution:

The greatest and the smallest five-digit numbers with 8 in hundred's place is

Greatest five-digits number = 97,865

Smallest five-digits number = 10,823



## **Evaluation Question**

Q.15. Find the sum of the largest and the smallest four-digit numbers.

Solution:

The largest four-digits number = 9999

The smallest four-digits number = 1000

Sum of the largest and the smallest four digits numbers

= 9999 + 1000

= 10999



## **Evaluation Question**

Q16. Find the difference between smallest and largest 6-digit number.

#### Solution:

Largest 6-digit number=9,99,999

Smallest 6-digit number=1,00,000

Difference between smallest and largest 6-digit number = 9,99,999-1,00,000 =8,99,999



## **Additional Home assignment**

- Q1.----is 152,69 more than the smallest 5-digit number.
- Q2. Write the smallest and the greatest numbers of 7 digits without repetition of any digit.
- Q3. If 1 is added to the greatest 7-digit number, it will be equal to
- (a) 10 thousand (b) 1 lakh (c) 10 lakh (d) 1 crore.

HW EX.1.A Q.No 18



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