



# NUMBER SYSTEM

**SUBJECT : MATHEMATICS**

**CHAPTER NUMBER: 01**

**CHAPTER NAME : NUMBER SYSTEM**

**SUB TOPIC: COMPARISON OF NUMBERS,COMPARING NUMBERS USING CHARTS**

**PERIOD NO:1**

---

**CHANGING YOUR TOMORROW**

---

Website: [www.odmegroup.org](http://www.odmegroup.org)

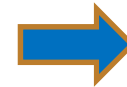
Email: [info@odmps.org](mailto:info@odmps.org)

Toll Free: **1800 120 2316**

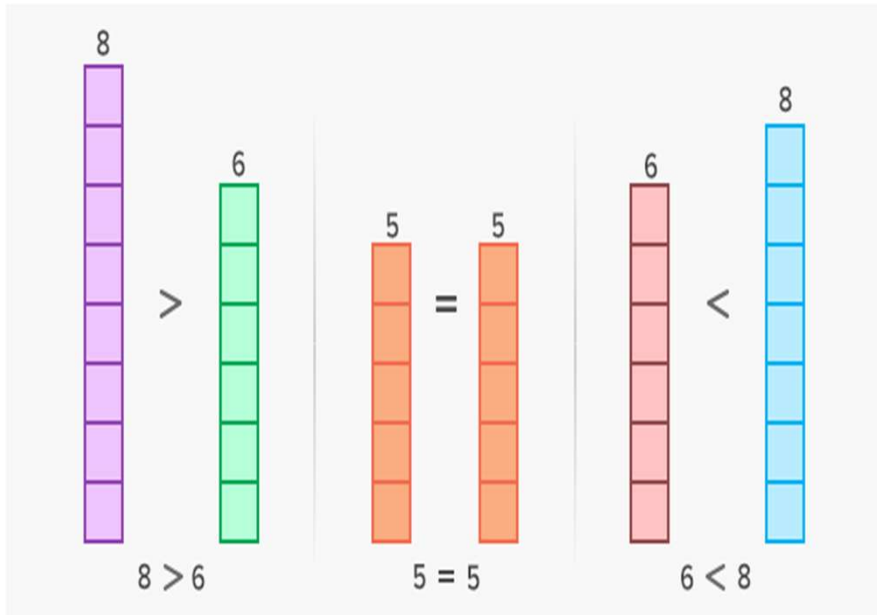
Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

## Learning outcome

- Students will be able to compare numbers.
- Students will be able to compare numbers using charts.
- Students will be able to solve problems based on comparing numbers



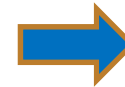
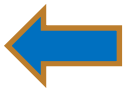
# Lets know about comparing numbers



*I am hungry. I want a large lunch. MUNCH! MUNCH!*

Alvin the alligator LOVES to eat large numbers.

12	<	18	Munch! Munch!
32	>	30	Munch!
251	>	248	Munch!
5,302	<	5,320	Munch! Munch!



## Comparing large numbers

Comparing between **Two** large numbers

Start →

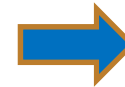
5 3 **2** 4 1 < 5 3 **4** 1 2

← →

# Rules of Comparison

Rules of comparison of numbers.

[https://www.youtube.com/watch?v=BEbh\\_cGcZmM](https://www.youtube.com/watch?v=BEbh_cGcZmM)(4.16)

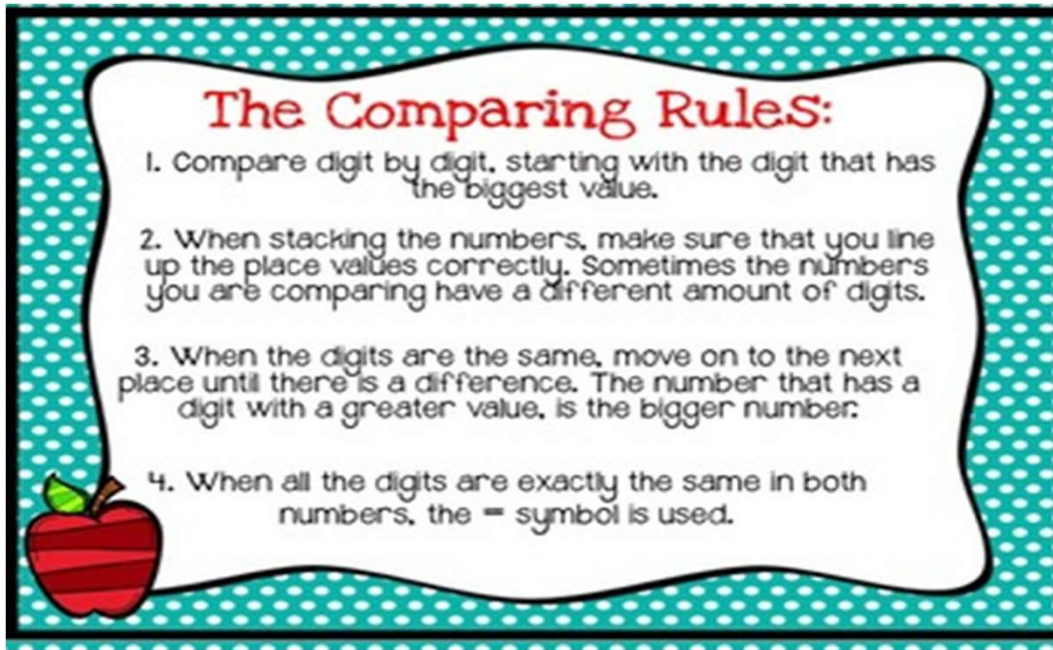


## Comparison of numbers described with the help of following video

[https://www.youtube.com/watch?v=yUKcKLxYq-k&t=12s\(10.16\)](https://www.youtube.com/watch?v=yUKcKLxYq-k&t=12s(10.16))



# Rules of comparison of numbers



**The Comparing Rules:**

1. Compare digit by digit, starting with the digit that has the biggest value.
2. When stacking the numbers, make sure that you line up the place values correctly. Sometimes the numbers you are comparing have a different amount of digits.
3. When the digits are the same, move on to the next place until there is a difference. The number that has a digit with a greater value, is the bigger number.
4. When all the digits are exactly the same in both numbers, the = symbol is used.



## Compare 62,36,489 and 62,53,278 using charts

6	2	3	6	4	8	9
6	2	5	3	2	7	8

- Clearly both the numbers have equal number of digits i.e. 6 digits.
- At the leftmost ,both have the same digit 6.
- At the second place from left ,again both have the same digit 2.
- At the third place ,from the left the first number has digit 3and the second number has digit 5.
- Since  $3 < 5$
- $6236489 < 6253278$





## Evaluation Question

Q1. Which is greater?

(i) 537 or 98

(ii) 2428 or 529

(iii) 2, 59,467 or 10,35,729

Solution:

(i) 537 or 98

Here 537 is a three digit number and 98 is a two digit number

$\therefore 537 > 98$

(ii) 2428 or 529

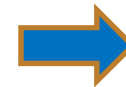
Here 2428 is a four digit number and 529 is a three digit number

$\therefore 2428 > 529$

(iii) 2, 59,467 or 10, 35,729

Here 10, 35,729 is a seven digit number and 2, 59,467 is a six digit number

$\therefore 10,35,729 > 2,59,467$



## Evaluation Question

Q.2. Which is smaller?

(i) 428 or 437

(ii) 2497 or 2597

(iii) 3297 or 3596

Solution:

(i) 428 or 437

We observe that both the numbers are of three digit numbers

At the leftmost, both the number have same digit i.e. 4.

At the second place from left, the first number has 2 and the second number has 3

We know that,

$$2 < 3$$

$\therefore$  428 is smaller than 437



## Evaluation Question

(ii) 2497 or 2597

We observe that both the numbers are of four digit numbers.

At the leftmost, both the numbers have same digit i.e. 2

At the second place from the left, the first number has 4 and the second number has 5

We know that,

$$4 < 5$$

$\therefore$  2497 is smaller than 2597



## Evaluation Question

iii) 3297 or 3596

We observe that both the number are of four digit numbers

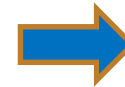
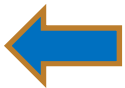
At the leftmost, both the numbers have same digit i.e. 3

At the second place from the left, the first number has 2 and the second number has 5

We know that,

$$2 < 5$$

3297 is smaller than 3596



## Evaluation Question

Q3 Which is greater **380362** or **381007**

Solutions

We observe that both the numbers are of 6 digits numbers

The digits are same at the leftmost and second place from left

But the digits at the third place from left are different, the first number has 0 and the second number has 1

We know that,  $0 < 1$

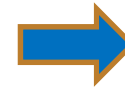
Hence, 381007 is greater than 380362



## Additional Homework

- Q1. By making suitable chart compare  
4,67,58,907 and 4,67,87,043
- Q2. Use table form to compare numbers and write them in descending order.  
5,43,567; 54,82,760; 49,78,987; 64,876 and 79,768

HW  
Ex.1.A Q. No. 5



**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

