

**CHAPTER 01****KNOWING OUR NUMBERS****Estimating and Comparing numbers:**

In our daily life, we compare numbers in many ways without being aware of it, such as these:

We compare

- Price of the same dress at two different shops.



₹ 1899



₹ 1789

- Height & Weight of students of the same class.



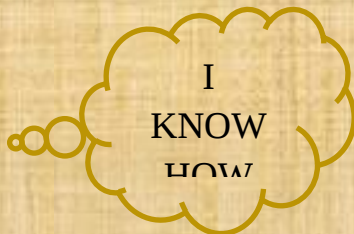
- Quantity of ingredients used in a dish.



In your primary compared numbers quite recall this with a few

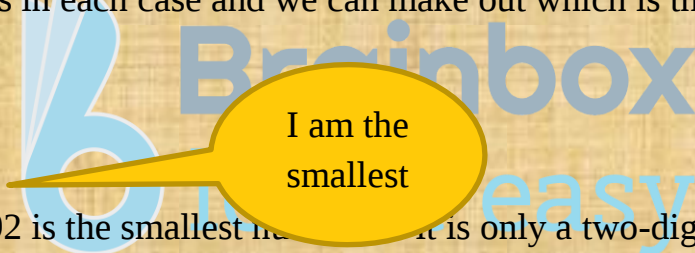
| TH | H | T | O |
|----|---|---|---|
| 4  | 4 | 5 | 6 |

classes, you have a lot of times; let us examples.



Consider the numbers 92, 392, 4456, 89742.

Comparing these numbers is quite easy. We look at the number of digits in each case and we can make out which is the greatest.



92 is the smallest number as it is only a two-digit number.

| T | O |
|---|---|
| 9 | 2 |

392 is a 3-digit number as the highest place is Hundreds.

| H | T | O |
|---|---|---|
| 3 | 9 | 2 |

4456 is a four-digit number greater than 392 as it has 4 digits.

While 89742 is the greatest of all the numbers given as it has highest number of digits.

I am the greatest

Similarly, we  
and the smallest

| TTH | TH | H | T | O |
|-----|----|---|---|---|
| 8   | 9  | 7 | 4 | 2 |

can identify the greatest  
in these examples.

In each case, you can very easily identify the greatest and smallest by comparing the number of digits and its place value.

1. 1473, 89423, 100, 5000
2. 1834, 75284, 111, 2333,
3. 2853, 7691, 9999, 12002, 124.
4. 382, 4972, 18, 59785.

Numbers in red: Greatest

Numbers in blue: Smallest

The greatest number has the most thousands and the smallest is only in hundreds or in tens.

Now, how do we compare numbers with same number of digits?

Such as 5874 and 4785?

Which one  
is larger?

In this example, both the numbers have thousand's place and so we compare the numbers at the thousand place.

The digit in the thousand place in 5874 is more than the digit thousand place of 4785.

| TH | H | T | O |
|----|---|---|---|
| 5  | 8 | 7 | 4 |

| TH | H | T | O |
|----|---|---|---|
| 4  | 7 | 8 | 5 |

Hence, 5874 is greater than 4785.

### Example:

Which number is greater 9342 or 9324?

Let us compare the value of each digit in these numbers.

As you can see the digit in thousand place is 9 in both the numbers.

| TH | H | T | O |
|----|---|---|---|
| 9  | 3 | 4 | 2 |

Hundred's place has 3 in both the numbers.

| TH | H | T | O |
|----|---|---|---|
| 9  | 3 | 2 | 4 |

The digit in the tens' place is different in both the numbers. This will help us decide which number is greater though both the numbers are 4 digit numbers.

The digit is Tens' place in 9342 is 4.

| TH | H | T | O |
|----|---|---|---|
| 9  | 3 | 4 | 2 |

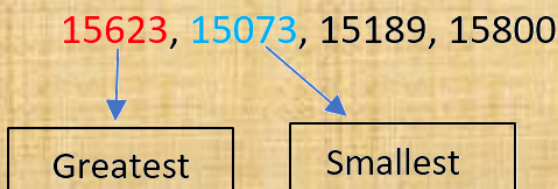
The digit in Ten's place of 9324 is 2

| TH | H | T | O |
|----|---|---|---|
| 9  | 3 | 2 | 4 |

Since  $4 > 2$  in ten's place.

The number  $9342 > 9324$ .

Similarly, we can identify the largest and smallest number in these examples.



In this example, all are five digit numbers and the first two digits are same. So we start comparing the numbers in the hundreds place.

In the second example,

25286, 25245, 25270, 25210.



### Reading Number Names:

In your earlier years, you have already learnt how to write number name for a given number.



### Reading large numbers:

When reading large numbers, you may find it difficult to read because you may not know where to begin.



How do we write the number 51 944 in words?

| Tens of thousands | Thousands | Hundreds | Tens | Units (Ones) |
|-------------------|-----------|----------|------|--------------|
| 5                 | 1         | 9        | 4    | 4            |

Knowledge of place value and also bunching or grouping of places (periods) help you to read large numbers.

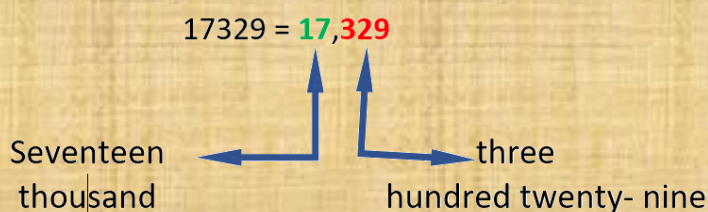
Consider the example 17329.

Separate the ones period by including a comma after counting the 3 numbers from right to left. Ten thousand and one thousand are bunched as one group while the “ONES” period are bunched separately as follows

$$17329 = 17,329$$

Now the number is read as,

Seventeen thousand three hundred twenty-nine.



### Important Points:

While comparing numbers,

- With different no of digits, compare the no of digits to identify the greatest and smallest.
- With same of digits, compare the digits in their highest place value.

