

Welcome To BYJU'S Classes





STRONG FOUNDATION

?



Engineer



?



Pathway to Success

Hurray!

You have mastered
the concepts of your grade.



6th
Grade



Theory
Classes

Build your
knowledge
concepts



Practice
Classes

Develop
deeper
concept
understanding



Revision
Classes

Revise &
Concrete your
learnings



Exam Prep
Classes

Ace your
exams by
practicing
exam
questions



7th
Grade

Doubt solving
along the way

We've also got your “LEARNING GAPS” covered!

Hurray!
You have mastered
the concepts of your grade.



Next Grade



Learning Ecosystem



Before the Class

Interactive journeys

To be prepared for the class



During the Class

Two Teacher Model

Teach concepts + Doubt solving



After the Class

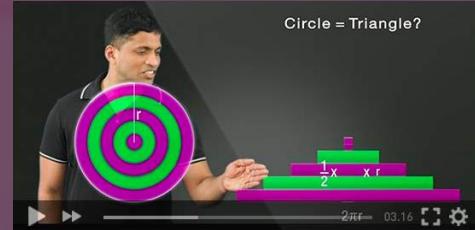
Homework and Practice

To recall and practice concepts

Things to do:



Watch the Concept Videos



Go through Learn Journeys



Yay! You now have a strong base for the **upcoming class.**

Learning Ecosystem



Before the Class

Interactive journeys

To be prepared for the class



During the Class

Two Teacher Model

Teach concepts + Doubt solving



After the Class

Homework and Practice

To recall and practice concepts

Things to do:

Sit comfortably



Keep a notebook



Keep your webcam on



Concentrate on Lectures

Participate and solve questions

Ask doubts

Attend classes regularly

Learning Ecosystem



Before the Class

Interactive journeys

To be prepared for the class



During the Class

Two Teacher Model

Teach concepts + Doubt solving



After the Class

Homework and Practice

To recall and practice concepts

Things to do:

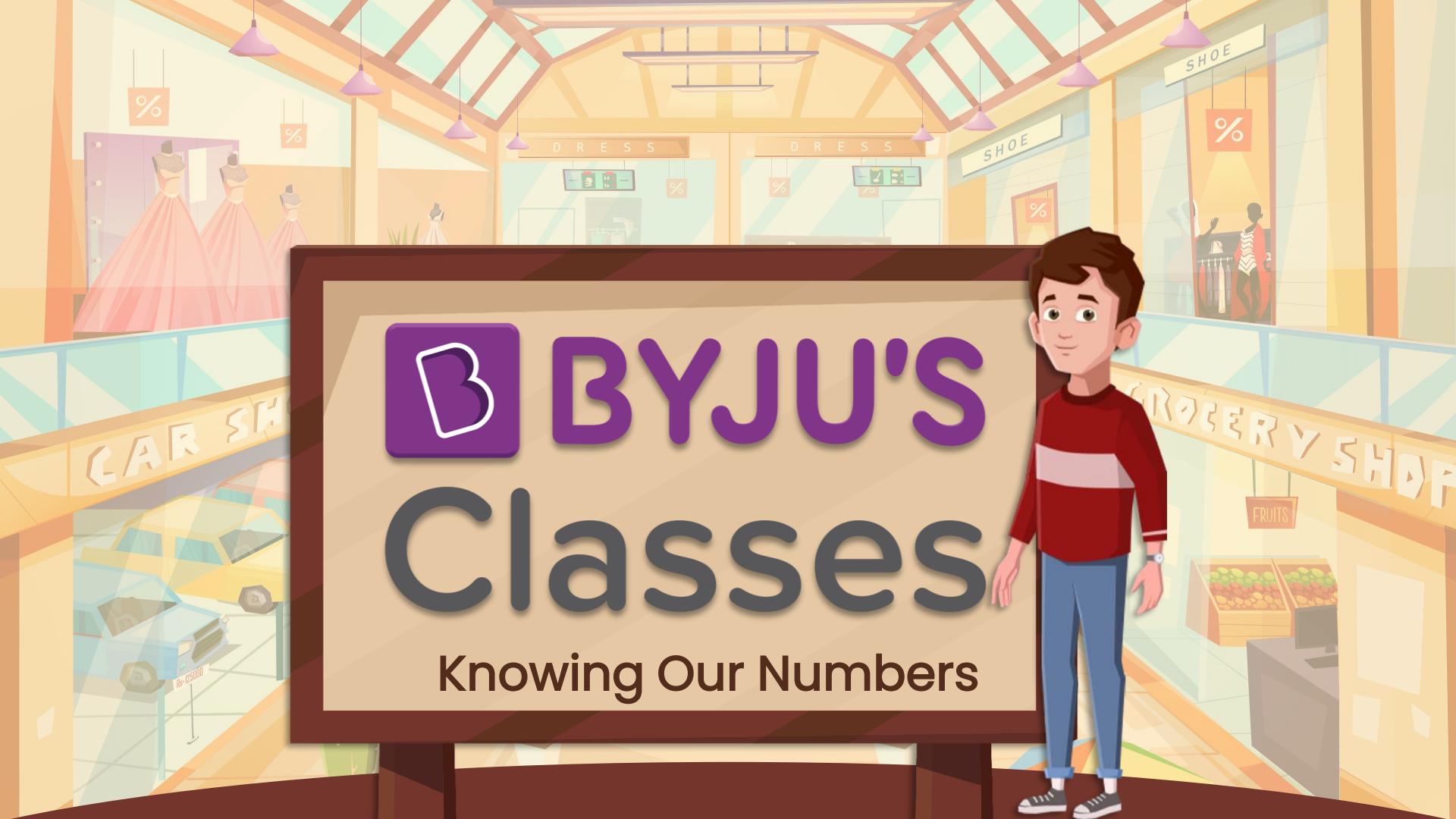


Complete Homework



Make class notes regularly





BYJU'S Classes

Knowing Our Numbers





Digits

There are ten digits that are generally used in mathematics.

0 1 2 3 4 5 6 7 8 9

Digit with smallest value

Digit with greatest value



Place Value of Digits

968



9

9×100

6

6×10

8

8×1



B

1. Find the sum of the place values of the digit 5 in the number 40553.

B

The weekend is here!
I finally have time to
do some shopping.



B

Alex starts with some grocery shopping.

I don't want to
spend a lot of
money. Which one
is cheaper?





Comparison of two numbers with equal number of digits

Grade :

6

PTS ID: 15C06M01S02

Chapter :

Knowing Our Numbers

Subtopic Name :

Ascending and descending order
and shifting digits

Timings :

01:20 – 02:26

Start :

So, how do you compare numbers...

End :

..this number is bigger.

Duration :

0:01:06

Link :

https://d27yfew3jd3yhj.cloudfront.net/mpkgr-production528ba0e4/qw77s6/NEO/210713/B2/15C06M01S02_Ascending_and_Descending_Order_and_Shifting_Digits/dash/h264.mpd



Comparing Numbers



Take notes



Equal number of digits

Step 1: Compare the leftmost digits of both the numbers.



Step 2: Compare the second to the leftmost digits in both the numbers if the digits are equal



Step 3: If the digits are equal, move to the third to the leftmost digit.



- Same procedure is followed until we get unequal terms.

Cost of tomato sauce

₹478

Cost of chilli sauce

₹423

_____ is cheaper.





B

2. Put the appropriate symbol ($<$ or $>$) in each of the following:

(a) 579835 578953

(b) 85015 85032

POLL QUESTION

%





3. Which of the following two digits can make the statement true? $8989__5 > 8998574$

A. 68

B. 86

C. 79

D. None



3. Which of the following two digits can make the statement true? $8989__5 > 8998574$

A. 68

B. 86

C. 79

D. None

The number of digits in the numbers being compared are the **same**.

The **first two leftmost digits** are the **same**.

Comparing the **third leftmost digit** in the numbers we get, $8 < 9$

Hence, **none** of the options are feasible.



Take notes

Alex checks other varieties of chili sauce

These prices look interesting. I will take the cheapest one.





Take notes



Formation of Numbers with Given Digits

Available digits

2, 3, 4

Numbers that can be formed
without repeating the digits

234

243

324

342

423

432

Greatest three-digit number



Smallest three-digit number



B

Alex comes across a slot machine for discount.

I will win a discount coupon on groceries if all three slots show **same** number.



B

This is a three-digit number with one digit repeating thrice.
How many three-digit numbers can be formed by repeating one digit twice if two digits are available?

YOU WON!

9 9 9





Formation of numbers with the digits – BHL P video

Grade : 6

MID: 20CBSE06MAT01TH001

Chapter : Knowing Our Numbers

Subtopic Name :

Timings : 11:38 – 13:12

Start : If you were trying to make a 3-digit number...

End : ...that you actually repeat.

Duration : 01:34

Link : <https://byju.s.lnwi.net/d/5a77f85a/qI5yoj/dash/h264.mpd>



Formation of Numbers of Given Digits (with repetition)

Available digits:

5, 7, 4

Repeating 1 digit twice

Repeating 1 digit thrice

Greatest three-digit number



Smallest three-digit number





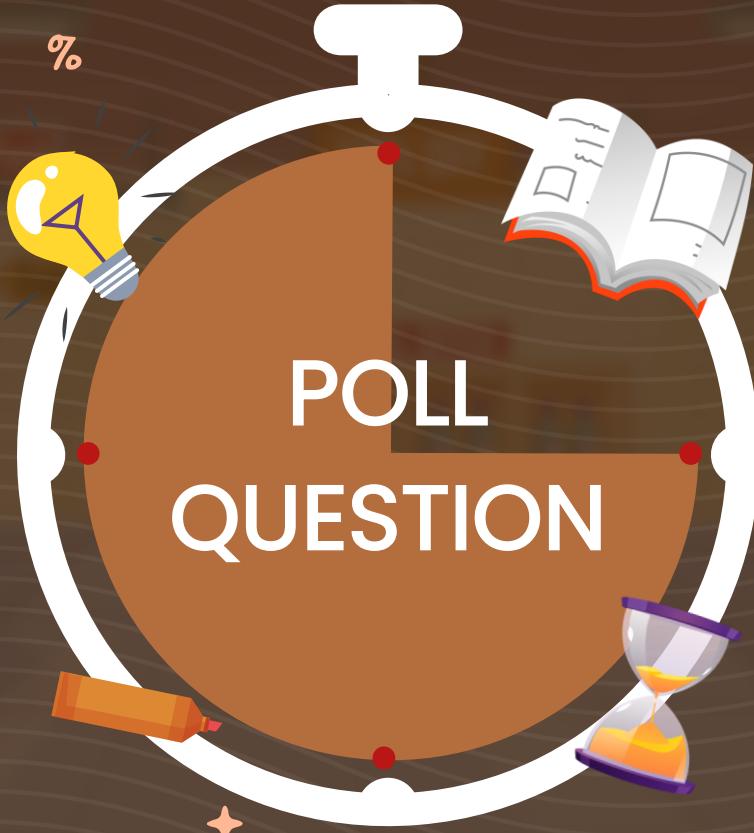
B

4. A mobile number consists of ten digits as follows:

7691_____ Fill in the last six blanks using 6, 5, 3, 8, 0, such that we can form the largest possible mobile number, provided only one digit can be used twice.

POLL QUESTION

%





5. The smallest five-digit number amongst the following options having four different digits is ____.

A.

00123

B.

10023

C.

10032

D.

11032



5. The smallest five-digit number amongst the following options having four different digits is ____.

A.

00123

B.

10023

C.

10032

D.

11032

0 before 123 does not add any value. So, option A is a three-digit number.

The leftmost digit in options B, C, and D are the same.

The second leftmost digit in option D is 1 which is greater than 0.

Now comparing the fourth leftmost digit in options B and C we get, $2 < 3$. Hence, 10023 is the smallest five-digit number here.



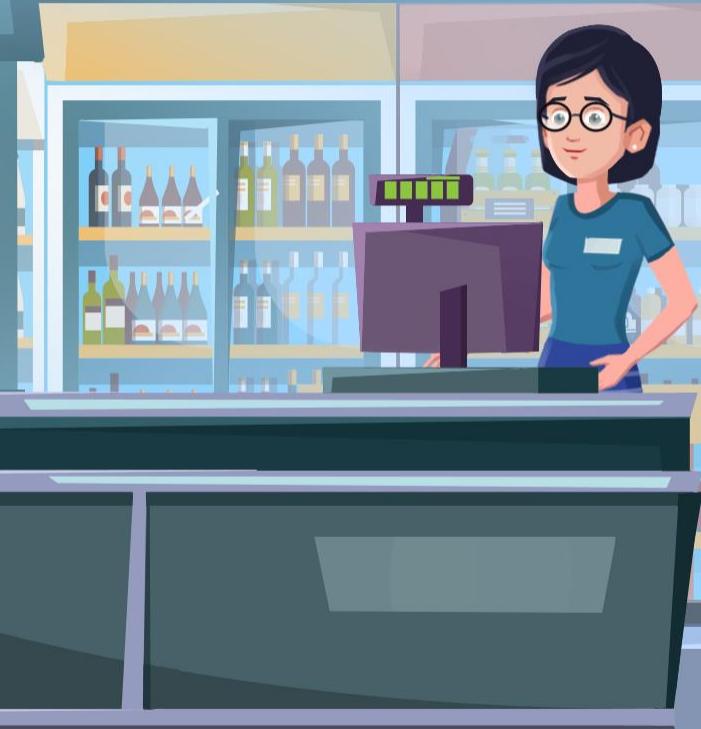
Take notes

-- Doubt Board --



B

Yay! I won the
discount coupon.



B

I should arrange these items in their increasing order to help her with the billing process.





Ascending and Descending Order of Numbers – BHELP Video

Grade : 6

MID: 20CBSE06MAT01TH001

Chapter : Knowing Our Numbers

Subtopic Name :

Timings : 16:52 – 17:41

Start : Look at this poor guy...

End : ...decreasing order respectively.

Duration : 00:49

Link : <https://byju.s.lnwi.net/d/5a77f85a/qI5yoj/dash/h264.mpd>



Ascending and Descending Order of Numbers

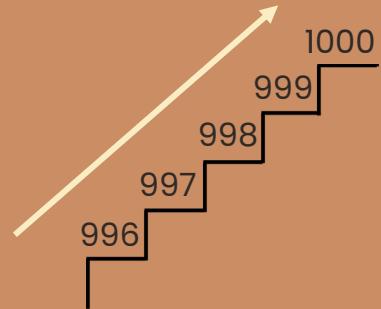


Take notes



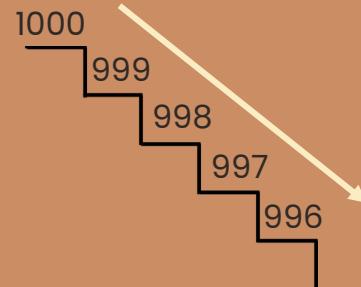
Ascending order

Numbers are arranged from a smaller value to a larger value.



Descending order

Numbers are arranged from a larger value to a smaller value.





6. For the ease of the billing process, Alex should arrange the items according to the increasing order of their prices. How should they be arranged?





?

7. Arrange the following numbers in descending order: 8435, 4835, 5084, 5348.

B

The Secret of Pricing

**SALE
WORTH ₹ 1000**
PAY ₹ 999

A discount! ₹999!
Why not just make it
₹1000?





Smallest and Largest Numbers for a Given Number of Digits

Grade : 6

MID: 15C06M01S02

Chapter : Knowing Our Numbers

Subtopic Name : Ascending and Descending Order and Shifting Digits

Timings : 12:55 – 14:00

Start : What happens if I add 1 to 9...

End : ...extrapolate it to all the digits for the numbers accordingly

Duration : 0:01:05

Link : https://d27yfew3jd3yhj.cloudfront.net/mpkgr-production-528ba0e4/qw77s6/NEO/210713/B2/15C06M01S02_Ascending_and_Descending_Order_and_Shifting_Digits/dash/h264.mpd



Smallest and Largest Numbers for Given Number of Digits



Digit	Smallest Number	Largest Number
1	0	9
2	10	99
3	100	999
4	1000	9999
5	10000	99999
6	100000	999999
7		

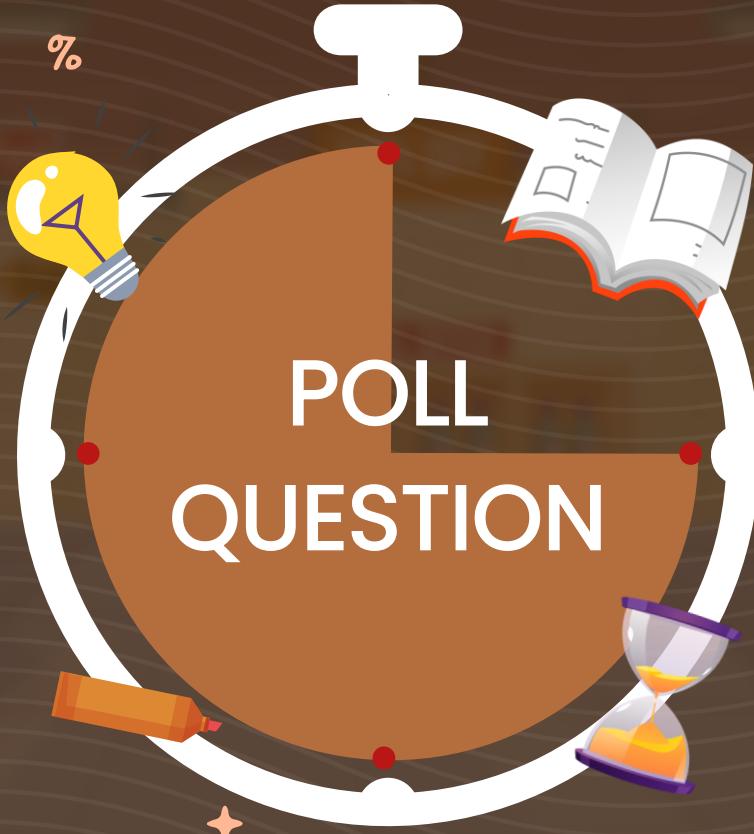


B

8. Find the difference between the largest seven-digit number, the largest six-digit number, and the smallest seven-digit number.

POLL QUESTION

%





B

9. Which of the following is **not** equal to
 $100000 - 99999$?

A. $10000 - 9999$

B. $1000 - 999$

C. $10 - 9$

D. $100000 - 9999$



9. Which of the following is **not** equal to
 $100000 - 99999$?

A. $10000 - 9999$

B. $1000 - 999$

C. $10 - 9$

D. $100000 - 9999$

$$100000 - 99999 = 1$$

Now in option A, $10000 - 9999 = 1$

In option B, $1000 - 999 = 1$

In option C, $10 - 9 = 1$

But in option D, $100000 - 9999 = 90001 \neq 1$

Hence, option D is the correct answer.



Take notes

While exiting the mall...

B

Why are the commas
put differently in these
two prices?

₹ 20,00,000

₹ 2,000,000



Use of Commas in Indian and International Number System

Grade : 6

MID: 15C06M01S02

Chapter : Knowing Our Numbers

Subtopic Name : Ascending and Descending Order and Shifting Digits

Timings : 14:06 – 16:23

Start : Let me get the numbers over here...

End :Yes, it's that million

Duration : 02:17

Link : https://d27yfew3jd3yhj.cloudfront.net/mpkgr-production-528ba0e4/qw77s6/NEO/210713/B2/15C06M01S02_Ascending_and_Descending_Order_and_Shifting_Digits/dash/h264.mpd



Take notes



Indian Number System

Crores		Lakhs		Thousands		Ones		
Ten crores	Crores	Ten lakhs	Lakhs	Ten thousands	Thousands	Hundreds	Tens	Ones
10,00,00,000	1,00,00,000	10,00,000	1,00,000	10,000	1,000	100	10	1

Representation of 2,45,26,634

Ten crores	Crores	Ten lakhs	Lakhs	Ten thousands	Thousands	Hundreds	Tens	Ones
-	2	4	5	2	6	6	3	4



Take notes



International Number System

Millions			Thousands			Ones		
Hundred millions	Ten millions	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
100,000,000	10,000,000	1,000,000	100,000	10,000	1,000	100	10	1

Representation of 24,526,634

Hundred millions	Ten millions	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
-	2	4	5	2	6	6	3	4



Did You Know?



There is a huge difference between a million and a billion.

1 million seconds is about **11 days**.

1 billion seconds is approximately **32 years!**

1 trillion seconds is approximately **31310 years!**



10. Alex was making a report on the population of three countries where he showed the population in the International number system, which is shown in the table given. For which country did he represent the population correctly? Also write its name according to the Indian number system.

Country	Population
Country 1	1,998,123,41
Country 2	1,12,37,43,33
Country 3	104,099,452

POLL QUESTION

%





11. Four cars were displayed in a car show, their prices had to be displayed in the Indian number system. The car for which the price is not shown correctly is ____.

A.

Car A

B.

Car B

C.

Car C

D.

Car D

Car	Price
Car A	₹7,61,500
Car B	₹11,10,500
Car C	₹1,04,55,00
Car D	₹8,00,500



11. Four cars were displayed in a car show, their prices had to be displayed in the Indian number system. The car for which the price is not shown correctly is ____.

A.

Car A

B.

Car B

C.

Car C

D.

Car D

Car	Price
Car A	₹7,61,500
Car B	₹11,10,500
Car C	₹1,04,55,00
Car D	₹8,00,500

The price of car C is displayed as ₹1,04,55,00 which is not correctly represented according to the Indian number system.



Take notes



B

12. Alex is on a quest where he needs to unlock a password protected door. The password is a valid three-digit number made up of digits 1, 0, and 8 without the digits being repeated. Write all the possible combinations for the password in ascending order.

-- Doubt Board --





Summary

Comparing numbers



Formation of numbers with given digits

7	5	4
7	4	5
5	7	4
5	4	7
4	7	5
4	5	7

Ascending and descending order

₹25 < ₹105
< ₹150 < ₹210
< ₹478

Smallest and largest numbers for given number of digits

SALE WORTH ₹ 1000
PAY ₹ 999

Use of commas in Indian and International system

₹ 20,00,000
₹ 2,000,000

Homework Time!



Practice is the way to excellence!

Please do finish your homework on time.

Bonus Questions

A brown shopping bag icon with a white question mark on it.

13. Write the third largest six-digit number having four different digits.



14. In a four-digit number, digit at tens place is 3, digit at ones place is thrice of tens place digit, digit at hundreds place is 0, digit at thousands place is one less than the digit at ones place. What will be the number?