OUR Devanagari Numerals Introduction and Exercises



Our Numerals

Introduction

Numbers are also written on this calender.

These numbers are written differently from your textbook.

The numerals used in this calender are numerals of Devanagari.

Let us identify these Devanagari numerals.

Number one is written as 1 in international numeral and as 9 in Devanagari numerals.



Like this 2 is written as R in Devanagari numerals.

3, 4 and 5 are written as 3, 8 and 2 in Devanagari numerals.

In the given table numbers from 1 to 10 written in international numerals and Devnagiri numerals. See it carefully and understand.

Number	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten
International numerals	1	2	3	4	5	6	7	8	9	10
Devnagiri numerals	9	ર	'n	8	¥	હ	Q	ζ	£	90





Count the pictures and write the numbers





See and understand

00

q

8

Ŀ

5

9

ζ

F

x

10

9

Complete the following

00

x

9 10

In The pictures given below join the numbers in serial order



Write in ascending order

 ₹, ४, १, २
 9
 ₹
 ₹
 8

 ६, २, ५, ३
 0
 0
 0
 0

 ७, ४, २, ६
 0
 0
 0
 0

 २, ५, ६, ३
 0
 0
 0
 0

Write in descending order

 २, ४, १, ५
 ५
 ४
 २
 १

 ४, ८, ६, ३
 ८
 ८
 ८
 ८

 ५, ७, ४, २
 ८
 ८
 ८
 ८

 १, ८, ६, ६
 ८
 ८
 ८
 ८

 १, ८, ६, ६
 ८
 ८
 ८
 ८



Even and odd numbers.

Take as many pebbles as the numbers written in the circles below. Now make pairs of pebbles. How many such pairs did you make? And how



many pebbles are left? Write your answer as shown in the example.

	pairs	Pebbles left
Y		
92		
39		
२६		
२३		
३८		
919		

Write down the numbers where one pebble got left behind.

These are **odd number**.

Now write those numbers that did not leave any pebbles behind when grouped into pairs.

|--|

You can take more numbers and identify odd and even numbers.





Identify the even numbers .

Circle the even numbers from 9 to 20

9	99	२१	39	89
२	१२	२२	३२	४२
N	१३	२२	२२	४३
8	98	२४	३४	88
Y	95	२५	३५	87
દ્	૧૬	२६	३६	४६
0	90	२७	३७	୧୦୪
ζ	95	<u>אר</u>	२८	ሄር
£	9£	રદ	३६	४६
90	२०	३०	80	40



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Maths -2

Beads and necklaces

Let us practice some more:



You have seen that for number 23, we get 2 necklaces of 10 beads each and 3 beads left behind, which can be written as :

२३	=	2 necklaces	+	3 beads	= 2 tens	+	3 ones
३४	=	3 necklaces	+	4 beads	= 3 tens	+	4 ones
84	=	4 necklaces	+	5 beads	=	+	5 ones
५६	=	5 necklaces	+	6 beads	=	+	

The bundle or necklace of 10 beads can be considered to be tens, while the beads can be considered ones.

10 ones make one ten.

				ጫ 🧖
		٨		Maths -2
Match the fo	ollowing.	22.		
			20 A	
F622	Ve	-COL		ACC R
		30		66
	३ tens	२ ones	ર્ષ્દ	
	€ tens .	३ ones	८३	
	७ tens .	ح ones	३४	
	٤ tens	t ones	દર	
	ت tens	३ ones	৩ন	
	9 tens	६ ones	६८	
	8 tens	७ ones	££	
	R tens	५ ones	૧૬	
	६ tens	ر ones	୪७	
	₹ tens	५ ones	રષ્ટ	
	€ tens	€ ones	३२	
	•			

Tens and Ones



Write only Ones.



Write only tens.

















Look at the example and complete the following exercises.

Write down the place value of the following numbers:



Similarly play this game with other numbers as well.



Make biggest and smallest number using the two numbers given.

Let's make a few numbers

- If two numbers ٤ and ٦ are given the numbers which can be formed using them will be ٤٦ and ٦٤.
- **२**. Numbers formed by \exists and \emptyset will be $\exists \emptyset$ and $\emptyset \exists$

Now take number cards from 9 to \in . Pick up any two cards from them.

Arrange them in different ways in such a way that different numbers are formed.

Similarly keep on picking up R-R cards and tell the numbers that you get each time to your friends.

Learn by doing

Make numbers by using given digits.

()	७,	२,	•••••	• • • • • • • • • • • • • • • •
(२)	L,	ς,	•••••	• • • • • • • • • • • • • • • • • •
(३)	३,	З,	•••••	• • • • • • • • • • • • • • • • • • •
(8)	ξ ,	8,	•••••	• • • • • • • • • • • • • • • • • • •
(\mathcal{Y})	ଏ,	ς,	•••••	• • • • • • • • • • • • • • • • • • •
(६)	£,	£,	•••••	• • • • • • • • • • • • • • • • •

Take two sets of cards of numbers $9-\xi$. Pick up any two cards from this set and write the numbers made with these digits. Now tell greater and smaller two digit number.

₩**₽**₩

Maths -2

Make groups.

Make groups of two.



Make groups of three.

÷ B	R	÷ B	æ	æ	B	- Contraction of the second se
8 3	48	- Constanting of the second se	8	8	÷ S	- B
- AB	÷	÷ S	÷	÷	÷ S	- Constant
Æ	÷	- Constant	Æ	÷	- Constant	- Contraction of the second se

Make groups of four.



Make groups of five.

48	48	48	R	8	- AB	8	
48	48	48	48	48	8	8	
8	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8	ĺ	
8	8	8	8	8	8		
8	Ŕ	Å 8	Ŕ	8	Ŕ		

How many flowers ?	
How many groups ?	
Remaining flowers?	

How many flowers ?	
How many groups ?	
Remaining flowers?	

How many flowers ?	
How many groups ?	
Remaining flowers?	

How many flowers ?	
How many groups ?	
Remaining flowers ?	

Make groups of ten.



How many flowers ?	
How many groups ?	
Remaining flowers ?	

Make such new groups.

A

Maths -2

Write in words.

Number	Words	Number	Words
9	एक	99	ग्यारह
ર	दो	૧૨	बारह
२	तीन	१३	तेरह
8	चार	98	चौदह
¥	पाँच	95	पंद्रह
ह्	छ:	१६	सोलह
ଓ	सात	90	सतरह
ς	आठ	ያፍ	अठारह
£	नौ	૧૬	उन्नीस
90	दस	२०	बीस

Write the following numbers in words.







- 9. At Ranjeeta's house 9 & jamun tree and R8 custard apple trees are there. Tell the total number of trees at Ranjeeta house.
- R. Hema buys gulabjamun of المح rupees and jalebi of الملاح rupees. Tell the total amount from which she buy sweets.
- ३. In a field there are २€ bringle plants and ३३ peas plants. Tell the total number of plants in the field.
- ४. Priya has १६ books and Sameer has २० books. Each of them get १० more books. Now tell total number of books they have.
- 5. Dinesh has २५ goats . He buys १६ more goats. Now tell the total number of goats.

Snakes and Ladders.





How many remain? Count and write.



If the ball goes up eight steps and rolls down three, then where does it reach? If the ball goes up 9 steps and comes down 7 steps, where does it reach?



Read the numbers on the number line and fill in the blanks.



Make other such questions on the number line and ask your friends to solve them





Maths -2		
Understand the e	example and t	hen solve.
Subtract १६ from ३६	२ १६	(२) (9 ६)
२ ६	र्भ स	ने मि
– 9 E	<u> </u>	<u> </u>
		9 0
36 - 19 = 17		
Subtract ४८ from ७२	E 9 २	E 9 २
७२	5 2	5 Q
<u>- 8 ς</u>	- 8 ς	<u>-8 ς</u>
		~ 8
72 - 48 = 24		
Subtract २६ from ४३		Subtract २८ from ५५
3 93		8 99
४ ३		£ £
<u>-</u> २ ६		- ર ς
9 0		<u>२७</u>

Subtract 95 from 80

3	90
8	ο
- 9	ς
ર	ર

Solve these.

Subtract ४६ from ६०

Ý	90
દ્	ο
- 8	६
9	8

३२	_	१२
88	—	રદ
ર્ષ્	_	३६
ςo	_	३४

Solve these.

- 9. Rashmi has ४६ ducks. He sold २४ ducks . How many ducks she has now?
- R.Tanu took ७४ rupees and went to bazaar. She brought some copiesof worth ५२ rupees. How many rupees does she have now?
- Chandani has R8 cups of icecream in her fridge. she distributes 99 cups among her friends. How many cups of icecream she has now?
- 8. Rinki's chachaji gave Rinki ۹७ rupees. Now she has २५ rupees. How many rupees she had with her?
- Y. When Abhay returned from mela he had ξ rupees. In the mela, he bought a car of 9₹ rupees. Tell how much money he took to the mela?

Some more question.

- 9. Vivek and Abhay together collected ২ৄ६ ber and gave ३३ ber to Ankit. How many ber are left with them?
- २. Ishan planted ५३ plants of guava out of which १६ plant died in summer. How many plants will be remaining in his backyard.
- 3. Anil takes *∈*8 jackfruit to the market 8*२* jackfruits are sold. How many jackfruits are left with them.
- 8. Deepak has २३ books in his library. He buys २८ more books. How many total books are there in library.
- 8. Reena and Rita are making garland. Reena puts ₹₹ mogra flowers in the garland and Reeta puts २७ flowers. Now tell how many mogra flowers they put in together.



Write numbers from 9 to 20 on your slate. Encircle every third, fourth and ninth numbers. Write the circled number.



Multiplication Symbol



How many groups are there?

How many umbrellas are there in all ? = 3+3 (Two groups of three) = ξ We also write it like this $3 \times 3 = \xi$ (3 multiply by 3) = ξ

=



Multiplication means repeated addition.

२+२+२	=	३+३+३+३	=	
२×३	=	₹×8	=	
३+३	=	<u> </u>	=	
३ ×२	=	×₹	=	
8+8	=	3+3+3+3+3	=	
8×	=	રૂ ×	=	
६+६	=	ς+ς+ς+ς	=	
£×	=	•••••	=	
、				
8×3	=	(9+(9+(9	=	
v··• x	_		_	
++	=	• • • • • • • • • • • • • • • • • • •	=	

Legs of Tripods?

Shahnaz and Ali's mother ask them to place a piece of brick beneath the legs of the tables and tripods. Shahnaz said, "I will do it for Tripods, Ali said Okay I will place beneath the legs of the tables."



Shahnaz made this table for herself:

One Tripod	३ legs	$\mathfrak{z} \times \mathfrak{g} = \mathfrak{z}$
Two Tripods	३ + ३ legs	$\mathfrak{z} imes \mathfrak{z} = \mathfrak{x}$
Three Tripods	३ + ३ + ३ legs	$\mathfrak{z} \times \mathfrak{z} = \mathfrak{z}$

Shahnaz said I will count the tripods and will find out, how many legs are there in all and then will bring that much pieces of bricks. Complete the table that Shahnaz has left incomplete and tell how many legs will there be in \neg tripods.

Make such table for Ali also.

Everything became zero

We have learnt multiplication of one digit numbers like $\exists \times \xi$, $\vartheta \times \exists$. etc. If we have to multiply a number with zero then what will we do? Like $\circ \times \exists = ?$

$z \times z = z + z + z$			
	Three groups	of ३ स	objects in all
$3 \times 3 = 3 + 3 + 3$			
	Three groups	of २ ह	objects in all
$9 \times 3 = 9 + 9 + 9$		Q	
	Three groups	of 9	objects in all
$o + o + o = \xi \times o$			
	Three groups	of 0	No object at all

Therefore $0 \times 3 = 0$, now find out the value of 0×5 , 0×5 , 0×5 , 0×90 look at 8×0

 $8 \times 3 = 8 + 8 + 8$ $8 \times 3 = 8 + 8 + 8$ $8 \times 2 = 8 + 8$ $8 \times 9 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 9 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 0 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 0 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 0 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 0 = 0$ $9 \times 0 \text{ bjects in all}$ $8 \times 0 = 0$ $9 \times 0 \text{ bjects in all}$

Multiply zero by any number or multiply any number by zero we will get zero.

Write 9 to 90 multiplication table

	ર			¥					90
				90					
				94					
				२०					
	90	94	२०	२५	३०	३५	80	४४	хo
				३०					
				३४					
				80					
				४४					
90				yo				ξo	

Ask you friends.





Play these games among your friends.



Solve these.

- 9. Two slippers are there in 9 pair . So how many slippers are there in 3 pairs.
- R. Tulesh have \mathcal{L} gardens. Each garden has \mathcal{L} mango trees. Tell the total numbers of mango trees in Tulesh garden.
- Rahi collected seeds of peanut. She has
 ⊂ peanut. Each peanut has
 ₹ seeds.
 Tell the total number of seeds Mahi have.
- 8. Preeti wants to plant seeds of Arahar. She has 90 small field In each small field she has to plant 4 seeds. How many seeds she needed.
- Σ . One bed had four legs, so tell the total number of legs in \Im beds.

How to Distribute Equally.

Meena has \neg marbles. She wants to distribute the marbles to Chunnu and Gudia equally.



How many did Chunnu get ? How many did Gudia get ?



Similarly;

Take 90 marbles and distribute them into 3 circles.

Take 97 marbles and distribute them into 8 circles.

Now take as many marbles as you wish. Make some circles and put equal number of marbles in each of them.

Distribution of Books.



There were \neg books. It was possible to take out two books, four times.

Collect objects in different numbers with your friends. Take out two objects from them repeatedly. In how many times were you able to take two things out?. Have some objects remained?

Write those numbers that leave no remainder when two things were taken out repeatedly.

Solve these.

- 9. Mahesh planted 90 Neem trees and २9 Mango trees which school garden. How many trees Mahesh planted in all?
- R. Naveen has 80 kg rice in his home. 98 kg rice is used at his home. Tell how much rice left in the sack.
- \mathfrak{Z} . Vimla has to eat \mathfrak{Z} pills in a day. How many pills she needed in \mathfrak{G} days.
- 8. Lata has one 200 rupees note. She goes to the shop to take its change.
 Shopkeeper gives her R0 rupees notes. So how many R0 rupees notes she gets from the shopkeeper.
- ५. ६ beds have to place in one room. So how many rooms are needed for ३६ beds.



If there are mentally challenged students in your class:

- 1. Break the lesson into small portions. Explain difficult concepts with examples and in simple language. Try and relate difficult concepts with experiences from daily life.
- 2. Pay constant attention to these students while teaching so that they do not lose their focus. Encourage them to answer questions in class and reward them when they answer properly.
- 3. Encourage the other students to be friendly and helpful towards their mentally challenged classmates.



If there are visually-impaired students in your class, extend your help:

- 1. Always address visually-impaired students by their names and speak out whatever is written on the blackboard.
- 2. Familiarize these students with the way to the classroom, staircases, Principal's room, drinking water facility, toilet, playground and library. This will enable them to go about their tasks independently.
- 3. Visually-impaired students use the Braille script. If your school does not have sufficient resources, contact the nearest DIET office and agencies that provide Braille and audio books, cassettes and CDs.



If there are physically challenged students in your class, extend your help:

- 1. Familiarize these students with the way to the classroom, staircases, Principal's room, drinking water facility, toilet, playground and library. This will enable them to go about their tasks independently.
- 2. Keep the classroom and nearby areas obstacle free. The drinking water tap should be reachable. The toilet should have commodes and a rod for support that they might need in sitting or standing up.
- 3. Encourage the other students to be friendly and helpful towards their classmates