LESSON 2



In order to write numbers we make use of digits such as 0, 1, 2, 3,..... These are known as international digits. We can also write numbers in the Devanagri script. Let us see the digits as they are written in both the scripts :

International digits	0	1	2	3	4	5	6	7	8	9
Devanagri Digits	0	8	२	Ŗ	४	ų	ų	9	L	?

The following table has numbers written in figures and in words. Learn to identify each number and read its name -

1	8	एक	26	२६	छब्बीस	51	५१	इक्यावन	76	७६	छिहत्तर
2	२	दो	27	२७	सत्ताइस	52	५२	बावन	77	७७	सतहत्तर
3	ર	तीन	28	२८	अट्ठाइस	53	५३	तिरपन	78	७८	अठहत्तर
4	४	चार	29	२९	उनतीस	54	५४	चौवन	79	७९	उन्यासी
5	ષ	पाँच	30	३०	तीस	55	ષષ	पचपन	80	८०	अस्सी
6	ધ્ય	ਾਲ:	31	३१	इकतीस	56	५૬	छप्पन	81	८१	इक्यासी
7	७	सात	32	२२	बत्तीस	57	५७	सत्तावन	82	८२	बयासी
8	٢	आठ	33	२२	तैंतीस	58	५८	अट्ठावन	83	८३	तिरासी
9	९	नौ	34	३४	चौंतीस	59	५९	उनसट	84	८४	चौरासी
10	१०	दस	35	३५	पैंतीस	60	६०	साठ	85	८५	पच्चासी
11	११	ग्यारह	36	રદ્	छत्तीस	61	६१	इकसट	86	८६	छियासी
12	१२	बारह	37	३ ७	सैंतीस	62	६२	बासट	87	८७	सत्तासी
13	१३	तेरह	38	३८	अड़तीस	63	६३	तिरसठ	88	22	अठासी
14	१४	चौदह	39	३९	उनतालीस	64	६४	चौंसठ	89	८९	नवासी
15	१५	पन्द्रह	40	४०	चालीस	65	६५	पैंसठ	90	९०	नब्बे
16	१६	सोलह	41	४१	इकतालीस	66	६६	छियासट	91	९१	इक्यानवे
17	१७	सत्रह	42	४२	बयालीस	67	६७	सड़सठ	92	९२	बानवे
18	१८	अठारह	43	४३	तैंतालीस	68	६८	अड़सठ	93	९३	तिरानवे
19	१९	उन्नीस	44	४४	चौवालीस	69	६९	उनहत्तर	94	९४	चौरानवे
20	२०	बीस	45	४५	पैंतालीस	70	७०	सत्तर	95	९५	पंचानवे
21	२१	इक्कीस	46	४६	छियालीस	71	७१	इकहत्तर	96	९६	छियानवे
22	२२	बाईस	47	४७	सैंतालीस	72	७२	बहत्तर	97	९७	सत्तानवे
23	२३	तेईस	48	४८	अड़तालीस	73	৩३	तिहत्तर	98	९८	अट्ठानवे
24	२४	चौबीस	49	४९	उनचास	74	७४	चौहत्तर	99	९९	निन्यानवे
25	२५	पच्चीस	50	५०	पचास	75	હષ	पचहत्तर	100	१००	सौ



Count the bundles and matchsticks and write their number.

1	ten	0	one	10	Ten
1	ten	1	one	11	Eleven
	ten		ones		
	ten		ones		
	ten		ones		
	ten		ones		
2	tens	0	one		

10 Write the numbers.

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	2 te	ns	1 one		21	2	tens	5 ones	25
	3 te	ns	3 ones			4	tens	0 one	
	4 te	ns	9 ones			5	tens	7 ones	
	6 te	ns	9 ones			7	tens	8 ones	
	8 te	ns	7 ones			9	tens	9 ones	
H	low man	y tens a	and how m	nany	ones?				
	29	2 tens		9 o	nes	37			
	60 -					77			
	86 -					53			
	93 -					98			
	Write in	words	5						
	39 🗍	Thirty n	ine	73			79 ——		
	43			67			87		
	23			75			- 59		
	94			83			38		
٦	Write in	figure	^o s						
	Nine	teen			Twenty three			Thirty four	
	- T VIIIC								
	Sixty	y two			Ninety one			Fifty nine	
	Nine	ty six			Seventy nine			Sixty one	
	Eigh	ty nine			Forty Seven			Ninety Nine	
							_		

Count the bundles and write about them in the given space.



1 hundred = 10 tens = 100 ones



12 Lets play a game

Collect the following with your friends

50 stones

One dice

30 cards with 10 written on them 10

6 cards with 100 written on them 100

Make small groups amongst your friends. Sit in one of the groups in a circle and

put all the items: stones cards of 10, 100 in the centre.

Now throw the dice and pick as many stones as the number that the dice shows and keep it with you.

Do this by turns. The one who manages to collect 10 stones gets a card of 10, with 10 written on it, Instead of the stones, the stones then should be returned to the pile of stones in the centre.

Continue playing until some person collects 10 cards of 10. These 10 cards should be exchanged for one card of 100 and the cards of 10 should be returned to the pile. Do this until every player has at least one card of 100 and fill the given table

Name	No. of cards of 100	No. of cards of 10	No. of stones

A card of 10 equals how many stones? A card of 100 equals how many cards of 10?

A card of 100 equals how many stones?



Count the bundles and matchsticks and write the number.

1 hundred, 0 ten, 1 one	101	One hundred one
1 hundred, 0 ten, 2 ones	102	One hundred two
1 hundred, 1 ten, 0 one	110	One hundred ten

14Fill in the blanks. -





tens

tens

ones

ones

hundred

hundred

307 -





Write the number in words and represent it on the abacus with the correct number of beads.



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Observe, understand and write





Write the following numbers in words.

221	Two hundred and twenty one	1
618		E.
798		
669		0
810		2
300		4
120		1
89		/
918		Sur 1



Write in figures.

One hundred and eight	Four hundred and fifteen	
Seven hundred and sixty five	Eight hundred and nineteen	
Three hundred and ninety one	Nine hundred and ninety nine	
Five hundred and fifty nine	One hundred and eighty seven	
Six hundred and twenty four	Seven hundred and seventy seven	



Encircle () the mentioned digit.

	Hundred's digit	\rightarrow	101	Ten's digit \rightarrow	439
	One's digit	\rightarrow	209	One's digit \rightarrow	808
	Ten's digit	\rightarrow	5(5)5	Hundred's digit \rightarrow	259
	One's digit	\rightarrow	7 99	Ten's digit \rightarrow	755
	Hundred's digit	\rightarrow	190	Hundred's digit \rightarrow	689
	Ten's digit	\rightarrow	121	One's digit \rightarrow	561
	Hundred's digit	\rightarrow	475	Hundred's digit→	283
	One's digit	\rightarrow	783	Ten's digit →	999
Wr	ite whether the fo	ollowing	are true or f	false-	



Face value and Place value:

When asked,

Look at the numbers from 1 to 100 that are written in your book and find out the digits.

Identify and write the digits below which help us in writing counting.

Now consider a number 66.

The digit 6 is written twice - 6 in the one's place and 6 in the ten's place.

You have read that the 6 in one's place represents 6 ones.



Whereas, the digit 6 in the ten's place represents 6 tens, or 60

We can see that the value of 6 differs with its position.

This value due to its position is known as the place value.

Besides this we also have a face value of a digit.



Now, try these.

, .			
Η	Т	0	
6	9	5	
			Face value of 5 is
			Face value of 9 is
			Face value of 6 is
Η	Т	Ο	
4	0	5	
			Face value of 4 is
			Face value of 0 is
			Face value of 5 is

We have also seen the place value of a two digit number. Let us now see the place values of the digits of a three digit number :

In 728, 8 is in the one's position. So its place value is 8 ones or 8.





Maths-3

2 is in the ten's position. So its place value is 2 tens or 20 ones or 20.

7 is in the hundred's position. It therefore represents 7 hundreds or seven hundred ones or 700. So its place value is 700.

Similarly, in 444

The 4 in the one's position has a place value = 4

The 4 in the ten's position has a place value = 40

The 4 in the hundred's position has a place value = 400

Exercise

1. Write the place value of the underlined digit :

8 0 <u>8</u>	 <u>7</u> 70	 6 <u>4</u> 0	
8 <u>8</u> 8	 52 <u>0</u>	 <u>4</u> 0 0	

2. Write some numbers on your slate and ask your friends to tell you the face value and place value of the digits of the written numbers.

3.	Match the following :	
	The place value of 3 in 532	3
	The place value of 0 in 804	600
	The place value of the hundred's digit in 666	30
	The place value of 3 in 553	40
	The place value of ten's digit in 440	0

4. Some numbers are given below in which the place value of some digit is given. You encircle () the digit whose place value is mentioned :

•			•		
885	800	311	1	999	900
4 8 4	400	515	500	282	2

- 5. Write a number which has 2 in the one's place, 5 in the ten's place and 7 in the hundred's place.
- 6. Write a number which has 0 in the one's place, 0 in the ten's place and 1 in the hundred's place.
- 7. Write the number which has 9 in the one's, ten's and hundred's place.

- Write the place value of 5 in each position in the number 555. 8.
- Write three numbers which have 0 in the ten's place. 9.
- What number would you get by inter changing the one's and hundred's 10. digits of the number 901?

Expanded form of numbers:

We have seen how to write the place values of the digits of a given number. What would happen if we were to add the place value of each digit in the given number?



Consider a three digit number 726 The place value of 6 is 6The place value of 2 is 20 and the place value of 7 is 700 Now add these 6 2 0 +700What number do we get? -----You can see that by adding the place values of each of the digit of a number, we get the same number. We can write this as 726 = 700 + 20 + 6Let us do the same with 258 In 258 Place value of 8 is Place value of 5 is Place value of 2 is Adding we get Have we got 258? In the previous example we wrote 726 = 700 + 20 + 6Here 700 + 20 + 6 is known as the expanded form of 726 Can you now write the expanded form of the number 258? + 258 =





Exercise

- 1. Write the expanded forms of the given numbers :

 393 = 300 + 90 + 3 630 = ---- + --- + ----

 424 = ---- + --- + ---- 339 = ---- + ---- + ----

 905 = ---- + --- + ---- 440 = ---- + ---- + ----

 766 = ---- + ---- + ---- 345 = ---- + ---- + ----

 555 = ---- + ---- + ---- 987 = ---- + ---- + ----
- 2. The expanded forms of some numbers are given. Write the number that you get by adding them:

500 + 70 + 8	=	578	700 + 50 + 1	=	
900 + 50 + 4	=		200 + 60	=	
900 + 70 + 6	=		600 + 90 + 3	=	
100 + 20 + 2	=		500 + 7	=	
300 + 60 + 9	=		400 + 30 + 6	=	

3. The teacher had written the place values of the digits in the given numbers, on cards and placed them next to the number; but some naughty children changed the positions of some cards and erased some of the written place values.

Fill in the erased place values and then rearrange, write the proper expanded form: ρ



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Let us compare





Rani is taller than Mangal



Mangal is smaller than Rani

Consider another situation :





In case of numbers, we say 7 is greater than 4. Written as 7 > 4



4 is less than 7 Written as 4 < 7



In numbers 2 equals 2 which is written as 2 = 2 Mangal is as tall as Rani

Read :

12 > 3

12 is greater than 3

196 < 201

One hundred ninety six is

less than two hundred one

less than nine hundred ninety nine

Nine hundred eighty is

116 > 110

One hundred sixteen is

.980 < 999

greater than one hundred ten

< Less than > Greater than = Equals to

Exercise

1. Compare the numbers and put the appropriate sign <, > or = in the given boxes.

5	3	40	20	35	53
31	21	61	60	99	100
152	252	307	307	453	453
666	999	799	800	909	909
696	669	450	540	69	96

2. Write the given numbers in a decreasing (descending) order .



Maths-3

3. Arrange the given numbers in an increasing (ascending) order.

7,	45,	21	7,	21,	45	
499,	299,	699	 _,	——,		
215,	351,	151	 -,	<u> </u>		
601,	309,	700	 -,	<u> </u>		
100,	900,	300	 -,	——,		



4. Write the next three numbers as shown.

127	128	129	130
418			
667			
573			
888			



5. Write the preceding three numbers to the given number, as shown.

105	104	103	102
365			
201			
967			
500			

6. Write the number which comes between the two given numbers, as shown.



Maths-3

7. Write the numbers which come just before and after the given numbers.

98	99	100
	840	
	778	
	515	

601	
300	
499	
222	

Even and Odd Numbers:

We have seen in the earlier class that :

If we take a number of stones equal to the given number and make pairs of them and no single is left, then the number is even. Also if a stone is left by itself, then the given number is odd.

- 1. Write the even numbers between 1 to 30 in the boxes given below.
- 2. Write the one's digit in each of the even numbers you have written above.
- 3. What are the digits that occur in the one's place of even numbers?
- 4. Write the odd numbers that occur from 1 to 30.
- 5. Write the one's digit of each of these numbers.
- 6. What are the digits which occur in the one's place of the odd numbers?



7. Now list the even numbers occuring from 31 to 60.



8. Which digits occur in the one's place of all these numbers?

Num	bers													29)
9.	Write	the o	dd nu	mber	s from	1 31 t	o 60	•					_		
10.	Write	e the d	igits v	whick	n occu	r in t	heir	one'	s pla	ace.					
11.	Write	the di	gits w	hich	occur	in the	one	's pl	ace	of al	l the	se ni	umbe	ers?	
	Some	enuml	pers h	ave b	een gi	ven.	Marl	c the	eve	n nu	imbe	ers w	vith a	a∕, a	nd
the o	dd nun	nbers	with a	ı 🗌										U	
	4	45		86	9	7	12	26	3	15		221	1	900	
	68	37		61	79	9	50	01	1	12		423	3	995	
	Write	the n	ext tw	voeve	en nun	nbers	:								
	1.	208,	210,	212					1	5L	4				
	2.	556,	558,	560					L	1 ce					
	3.	114,	118,	122						ł	D				
	4.	410,	420,	430,			-			1	21				
Do	this •									1					

Do this :

Take 40-50 pieces of paper and write numbers which are greater than 100. Fold them and put them in a box. Now pick up a paper by turn and read the number written on it. Decide whether it is odd or even and each of you make a list of the even or odd numbers that you are reading out.

Even Number	Odd Number	1
		V

Now check each others notebooks to see if you have done it correctly.

30 Also try this:

Take any 5 pieces of paper from the box. Read out the numbers written on them. Then ask each of your friend to arrange the number in an increasing (ascending) order.

Now again pick out 5 more chits and arrange the numbers in a decreasing (descending) order.

Observe the pattern and write the next three numbers :



Let us make numbers :

- 1. If we are given two digits 7 and 3, we could make two numbers using these-73 and 37
- 2. From 1 and 5, the numbers we get are -15 and 51
- 3. Similarly, if 2, 8 and 5 are given, we could get 6 numbers 285, 258, 528, 582, 852, 825

Now take nine cards with digits 1 to 9 written on them.

Pick any two cards and make the possible two digit numbers (you would get only two). Let your friends try too.

Now take 3 cards at a time and make the different numbers using these. See who made the maximum numbers?

Learn by doing :

1.

Mak	te nun	nbers	using the given c	ligits	P
(1)	2,	7	,	,	Y
(2)	5,	2	<u> </u>	,	
(3)	8,	3	,	,	
(4)	3,	1	,	,	

In each pair that you have formed, encircle the number which is greater.

2. Make numbers using the three given digits

(1)	3,	4,	1,	,	,	,
(2)	1,	2,	9	,	<u> </u>	,
(3)	3,	7,	8	,	,	,
(4)	0,	5,	6	,		,
(5)	4,	1,	0	,	,	,

From the numbers which you formed, encircle the smallest number.

Word Problems

- 1. I have 7 hundreds, 8 tens and 9 ones. What number am I?
- 2. In a number, the face value of a digit in the one's place is 5 and ten's place is 4, then what is the number?

- 3. Which is the first odd number after 90.
- 4. Which is the even number just before 98?
- 5. Which is the number just before 100?



- 6. What number do we get by adding 1 to 9 ?
- 7. The place value of my one's digit is 5 and ten's digit is 50, then which number am I?
- 8. Write the difference between the smallest three digit number and the greatest two digit number.
- 9. I am a three digit number. My one's digit is 4. So am I an even or odd number?
- 10. Write the number which comes just before the largest three digit number.
- 11. Write five even two digit numbers, which have 5 in their ten's place.
- 12. Write 5 odd two digits numbers which have 8 in their ten's place.
- 13. Write any three numbers in which the one's digit is double the ten's digit.

