

2.1 Number Sequence upto 10,000

The transport department on Thursday announced that 10,000 special bus services will be operated from November 3 to 5 to accommodate the passengers during the Diwali season. Of 9,967 special services, 6,367 buses will run from Chennai to other districts and 3,600 will run within the districts.

Let us discuss the following questions.

What does this text talk about?

What is special about the festival?

How many of you will go to your relatives home?

How many of you would travel to other places during festivals?

What do these numbers convey us?



In 1st grade, you have studied number names up to 20. Now we will learn names of larger numbers. You have already learnt the numbernames from 1 to 20 and also number-names of 30, 40, 50, 60, 70, 80, 90 and 100.

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How do we name the larger numbers. Let us discuss the following example.

EXAMPLE Write 1283 in words. Solution First write the given number in expanded form and write the name of each number below it and then combine that name. 1283 = 1000 + 200 + 80 + 3= One Thousand + Two hundred + Eighty + Three So the number-name of 1283 is one thousand two hundred and eighty three. Exercise 2.1 Write the following number in words. Α. (i) 1006 (ii) 6327 (iii) 9097 (iv) 10,000 (v) 8906









Note:

To identify whether the given number is odd or even, it is enough to look at the digit in 'ones' place.



Circle the odd numbers and write their names in the table given below.

4132	8841		7483
297	'3	1045	
8123	5667		4646
6566	3990		3132

Number	Number Name
8123	Eight thousand one hundred and twenty three.
8	3123

Exercise 2.2

1. Circle the odd numbers in the following.

9001, 8002, 7603, 6542, 4875, 3882, 3217.

2. Circle the even numbers in the following.

6231, 5920, 4812, 2121, 1234, 9528, 3946.



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3.	Choose the even numbers from the following and write the number and number names.									
	6501,	4706,	3999,	4001,	3848					
	Number	^		١	Jumber Nam	e				
	Pick out		on numb	one and	unito thoir	nome in the	tabla			
4.	Pick out given be	t the ev elow.	ven numb	ers and	write their	name in the	table			
4.	Pick out given be 4703,	t he ev 2 10w . 3206,	ven numb 2003,	ers and 4017,	write their 2001	name in the	table			
4.	Pick out given be 4703, Number	the ev 210w. 3206,	en numb 2003,	ers and 4017, N	write their 2001 Jumber Nam	name in the	table			

2.1.1 Expanded form of a large number.

The expanded form of 534 is 500 + 30 + 4

We read this as five hundred thirty four.

Similarly,

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2936 = 2000 + 900 + 30 + 6 = Two thousand nine hundred thirty six.

The digits in the expanded form of a number express the place values of the digit.



In the number 5269

The place value of 5 is 5000 (five thousand)

The place value of 2 is 200 (two hundred)

The place value of 6 is 60 (sixty)

The place valued of 9 is 9 (nine)

Thus, the place value of a digit in a number is the value where it is present in the number. If 5 is at Thousandth place in a number, its value will be 5000, if it is at Hundredth place, its value will be 500, etc.

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The face value of digit is the digit itself, at whatever place it may be. It is unchangeable and definite. But place value changes according to the digit's place.

Place value of a digit = Face value of the digit \times value of the place



In the number, 2745.

Place value of $5 = 5 \times 1 = 5$ ones, face value of 5 is 5.

Place value of $4 = 4 \times 10 = 40 = 4$ tens, face value of 4 is **4**.

Place value of $7 = 7 \times 100 = 700 = 7$ hundreds, face value of 7 is 7.

Place value of $2 = 2 \times 1000 = 2000 = 2$ thousands; face value of 2 is 2.

Exercise 2.3

1. Find the face value and place value of the digits coloured in the given numbers.

a) 1379
b) 9876
c) 5136
d) 8965
e) 2010
f) 4038

2. Complete the given table.

	Number	Expanded Form
۵	6785	
b		4000 + 200 + 90 + 6
с		3000 + 300 + 20 + 7
d	9999	
e		5000 + 70 + 1
f	2934	



iv One's place is 2 more than 6

3. Circle the correct one.

۵	5 thousands + 3hundreds + 2 ones	5320,	5302
b	The place value of 5 in 3758	50,	500
с	Three thousand six hundred and sixty	3060,	3660
d	4000 + 600 + 90	4690,	4609

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Activity

Procedure:

- 1. Divide the class in groups of 5.
- 2. Form a number using number cards from 1 to 9.
- 3. Write its number name.
- 4. Write its expanded form.
- 5. Write the place value of each digit.





1. Write the strength of each class in your school. Arrange them in ascending and descending orders.

2.	Starting point	Destination	Approximate Distance in km
	Chennai	Pondicherry	132
	Chennai	Hyderabad	511
	Chennai	Kolkata	1363
	Chennai	Delhi	1757
	Chennai	Mumbai	1025
	Chennai	Guwahati	1891

Locate it in the map and find out feasible way to travel to all the places.

- a) Arrange the places in ascending order according to the distance.
- b) Arrange the places in descending order according to the distance.
- c) Choose the place which is shorter in distance from Chennai.
 (i) Mumbai (ii) Guwahati (iii) Hyderabad
- d) Choose the place longer in distance from Chennai.(i) Kolkata (ii) Mumbai (iii) Pondicherry
- e) The place in the longest distance from Chennai is _____

2.2.2 Forming the smallest and the largest numbers using given digits.

- 1. To write the smallest number using the given digits only once.
 - a) When none of the digits is zero, we arrange the digits in ascending order and form the number.

b) When one of the digits is zero, we arrange the digits in ascending order and put zero at second place from extreme left while forming the number. EXAMPLE The smallest 4 digit number using the digits 1, 7, 5, 0 is **1057**. 2. To write the greatest number using the given digits only once, we arrange the digits in descending order and form the number. EXAMPLE The greatest 5 digit number using the digits 5, 1, 7 and 9 is 9751. Exercise 2.5 Form the greatest and smallest numbers using the given digits 1. only once. Greatest number Smallest number Digits 1, 4, 3, 7 a 5, 0, 9, 3 b

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6, 7, 1, 5

3, 2, 0, 9

7, 3, 2, 8

4, 6, 0, 2

9, 1, 4, 0

С

d

e

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2.	Circl	$e \bigcirc$ the s	mallest numb	per and tick	(\checkmark) the gre	atest number:
	a) 2	.715,	2175,	2517,	2157,	2275
	b) 6	238,	2386,	3862,	8623,	9378
	c) 9	345,	9646,	3408,	1425,	2000
	d) 5	931,	1370,	4000,	2000,	3000
	e) 6	000,	7000,	5000,	4000,	9000
	f) 2	468,	4279,	5090,	7906,	6270
	g) 7	'692,	8296,	3241,	9276,	4291

2.3 Addition and subtraction

In a school, 1232 students travel by cycle, 2430 students travel by school bus, and 1235 walk on foot to the school. How many students are there in the school?

In a school

No. of students travel by cycle	=	1232
No. of students travel by school bus	=	2430(+)
No. of students coming to school on foot	=	1235
Total no. of students	=	4897

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Exercise 2.6 Fill in the boxes. 1 i 4634 + = 4634 ii 2134 + 1 =5349 + 0 = iii 1435 + 1923 = 1923 + iv 3457 + = 3458 ۷ 2. Add (i) Th Η Т (ii) 0 Th Η 0 Τ 3 2 5 4 2 1 3 5 4 2 1 3 3 2 4 4 ++(iii) Th (iv) Th Η Т Η Ο Τ 0 2 3 7 6 1 4 3 3 3 1 3 7 4 5 5 2 3. Add: 2713 + 104 + 1172 + 6010 4. A man visited a furniture shop. He bought a bed for ₹ 2100, a dining table for ₹ 3500, and six chairs for ₹ 4200. How much money did he pay to the shop keeper?

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5. Create word problem for the addition facts given below. (a) 3094 + 7923 = 11,017 (b) 8309 = 2309 +

 (\mathbf{A})

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6. Create addition stories using the pictures and numbers given below.

(b)	Child birth	ild birth between 2017 and 2018 are given below						
	Distri	ict	Children					
		Urban	1032					
	тисну	Rural	2030					
	Anivalun	Urban	1205					
	Ariyalur	Rural	4097					
	kanahinunam	Urban	2104					
	kanenipurani	Rural	4034					
	Channai	Urban	1430					
	Chennal	Rural	1023					

7. Fill in the circles using 1400, 1500, 1600,1700,1800 and 1900 so that the three numbers along each line add up to 5000.

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EXAMPLES						
. Subtract 3285 from 5657						
Step: 1						
Arrange the numbers in columns	as shown below.					
TH H T O 5 6 5 7	Step 1: It is not possible to subtract 8 tens from 5 tens.					
- 3 2 8 5	So, borrow 1 hundred from the hundreds column.					
5tep: 2 Subtract column wise.	Step 2: 6 hundreds = 5 hundreds + 1 hundred. Transfer 1 hundred to the tens place.					
тннто	10 tens + 5 tens = 15 tens.					
5 15	Step 3: Now subtract 2					
5 <u>/</u> 5 7	hundreds from 5 hundreds.					
- 3 2 8 5	Step 4: Then 3 thousand					
2 3 7 2	Trom 5 Thousand.					
5657 - 3285 = 2372						
 The sum of two numbers is 47 other number. 	204,one number is 1207. Find the					
Solution:	Th H T O					
Sum of two number = 4204	3 11 10 14					
One number = 1207						
Other number = 2997	$-\frac{1207}{2997}$					

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	Exercis	se 2.30				
A. Subtract						
1. TH H T 3 4 4 - 1 3 4	O 2. 5 8	TH 4 – 2	Н 9 4	T 6 4	0 5 6	
3. THHT 6 5 7 – 3 3 9	0 4. 0 7	TH 8 - 5	Н 9 9	T 5 6	0 3 4	_
B. Find the difference	between g	iven numl	pers.			-
a) 4352 and 5020		c) 252	6 and	d 84	31	
b) 1438 and 3370		d) 336	1 and	d 90	00	
 C. Answer the following 1. The sum of two Find the other 2. A man had Rs 9 much money do 	g questions numbers i number. 200 in the es he have	s 7036, d bank. He in the be	one n e wit ank n	umb hdre ow?	er is w Rs	s 3168. s 2756. How
D. Create the subtract below.	ion story p	oroblems	for t	he c	letai	ls given
a) 1997 - 1968						
b)						
	3	7				
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C	153 feet													
	Acti	vity		N	Jumb	oer pi	uzzlo	e						
-	Solve	the	sub	tract	ion pi	roblei	ns. N	Jow 1	write	the a	differ	renc	es. C)ne
ł	nas b	een	done	for	you.									
						Th	H	T	0					
						8	1 	. 6	16 6					
					(–	.) 3	5	5	8					
					·	5	6	1	8	_				
	тн	н	Т	0		тн	н	т	0		тн	н	т	0
	2	3	5	3		1	2	2	8		9	6	3	0
-	1	9	0	1	_		2	8	6	_	1	5	9	0
-														
	TH	H	T	0		TH	H	T	0		TH	H	T	0
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	1	6	3	8			•	•				•	•	
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	1	8	6	9		5	4	י 5	6		9	2	2	3
	1	3	7	9	_	1	3	2	5	_	3	8	9	9
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