

Learning Outcomes

At the end of this lesson, you will be able to:

- · read and write 4-digit numbers and use them in daily life.
- use place-value to write 4-digit numbers in the expanded form and vice versa.
- compare 4-digit numbers and arrange them in ascending/descending order.
- make the greatest and smallest number with given digits.



GET STARTED

Numbers in real life

Mathy studies in Bright School in Class 3. She is very interested in Maths. She looks for Maths everywhere!

She has a younger brother Shambhu and an elder brother Asim.



Did you know, Didi, there were 99 children in my school. I joined the school yesterday. Now there are 100 children.

Oh! 100 does seem like a very important number!

Shambhu, I love the number 100.

It is the smallest 3-digit number. It is equal to 10 tens.





Look at this lovely shirt, Mathyl It costs ₹ 999. I can't understand how much that is.

Why do they always have such difficult prices?

You are right, Bhaiya. 999 is the largest 3-digit number.

They should mark the price as ₹ 1000.

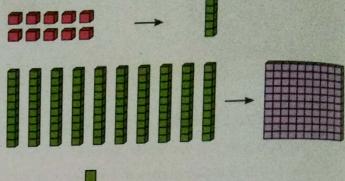
1000 is just 1 more than 999. But it is such a nice number.



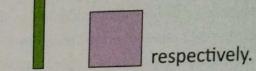
Check what you know

1. Fill in the blanks.

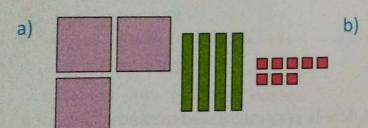
- a) 10 ones make 1 _____
- b) 10 tens make 1

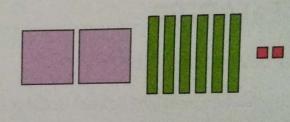


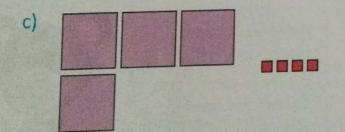
Let us represent ones, tens and hundreds as

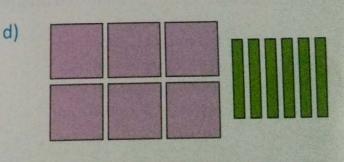


2. Write the number and number name.



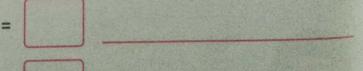




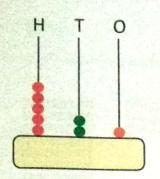


3. Write the number and number name.

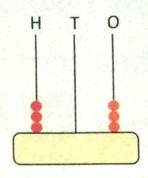
- a) 6 hundreds + 7 tens + 5 ones
- b) 4 hundreds + 8 tens
- c) 7 hundreds + 9 ones

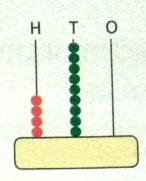


4. Write the number shown on each abacus.



b)





5. Write the expanded form.

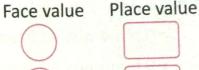
6. Write the face value and the place value of the digit in red.

a) 295





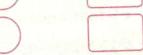
240



c) 601



- d) 560



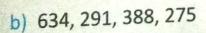
7. Fill in the () with >, < or =.

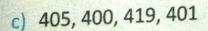
- a) 176
- 167 b) 485
- 496
- c) 990
- 99

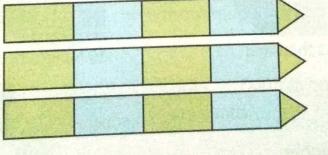
- 780 d) 708
- e) 650 650
- 321 123

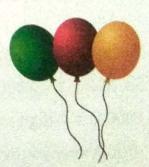
8. Write the numbers in ascending (increasing) order.

a) 272, 384, 96, 504

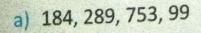


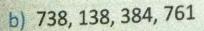


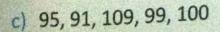


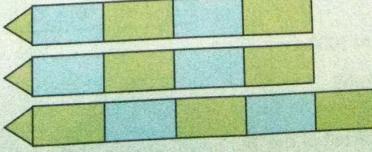


9. Write the numbers in descending (decreasing) order.









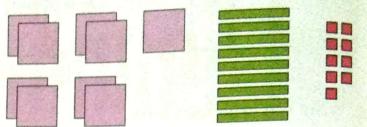
CONCEPTS SECTION



Thousand

Rita has a big stamp collection. She has 999 stamps.

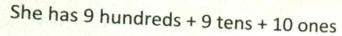
999 is 9 hundreds + 9 tens + 9 ones.



Her friend Anand gave her one more stamp.

How many stamps does she have now?

How much is 999 + 1?

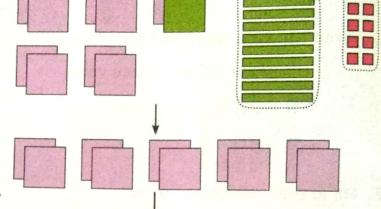


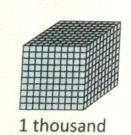
= 9 hundreds + 10 tens

= 9 hundreds + 1 hundred

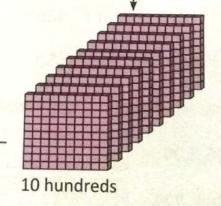
= 10 hundreds

10 hundreds together make 1 thousand.





make



We write 1 thousand as 1000.

So, 999 + 1 = 1000.

1000 is a 4-digit number.

1000 is shown on the abacus as:

1000 is the smallest 4-digit number.



	Th	Н	Т	0
The same	1	0	0	0



Let us represent 1000 as:

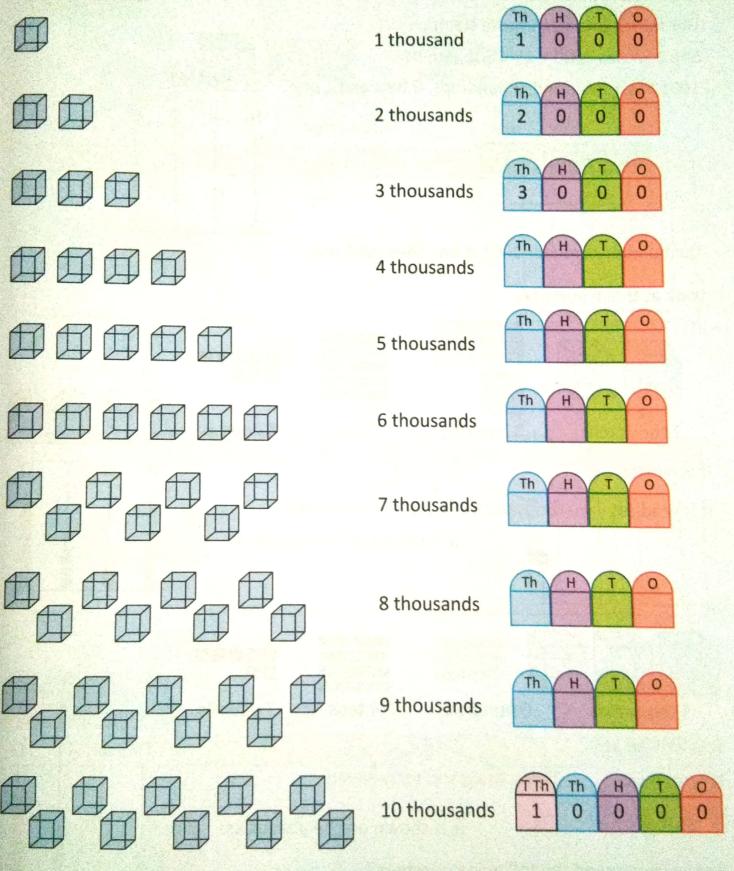


To show 1000 we use an abacus with four spikes.

The spike on the left of the 'Hundreds' spike is labelled 'Thousands' or 'Th'.

Counting in thousands

Fill in the blanks.



10 thousand or 10000 has five digits. We need five places to write it. It is the smallest 5-digit number.



Building numbers beyond 1000

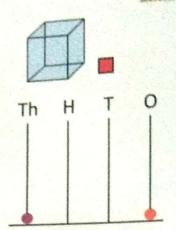
Rita has 1000 stamps.

Her father gave her 1 more stamp.

She now has 1000 + 1 = 1001 stamps.

1001 has 1 thousand, 0 hundreds, 0 tens and 1 one.

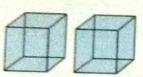
Th	Н	Т	0
1	0	0	1



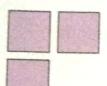
The number name for 1001 is one thousand one.

Look at these numbers.

al



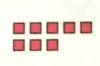
2 thousands



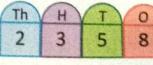
3 hundreds



5 tens



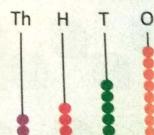
8 ones is



It is written as:

It is read as: Two thousand three hundred fifty-eight

It is shown on the abacus as:



b)

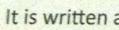


3 thousands

0 hundreds 4 tens 7 ones is







It is written as: 3 0 4 7.

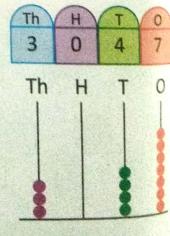
It is read as: Three thousand forty-seven

It is shown on the abacus as:

How will you read the following numbers?

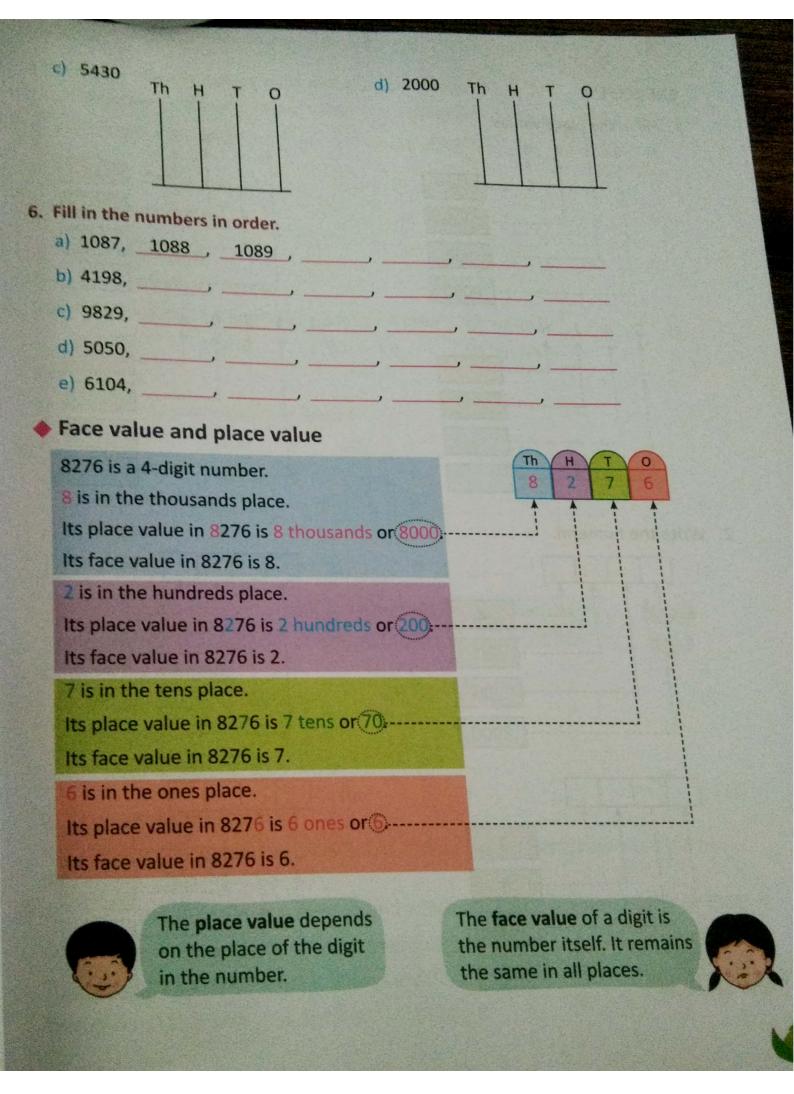
7508:

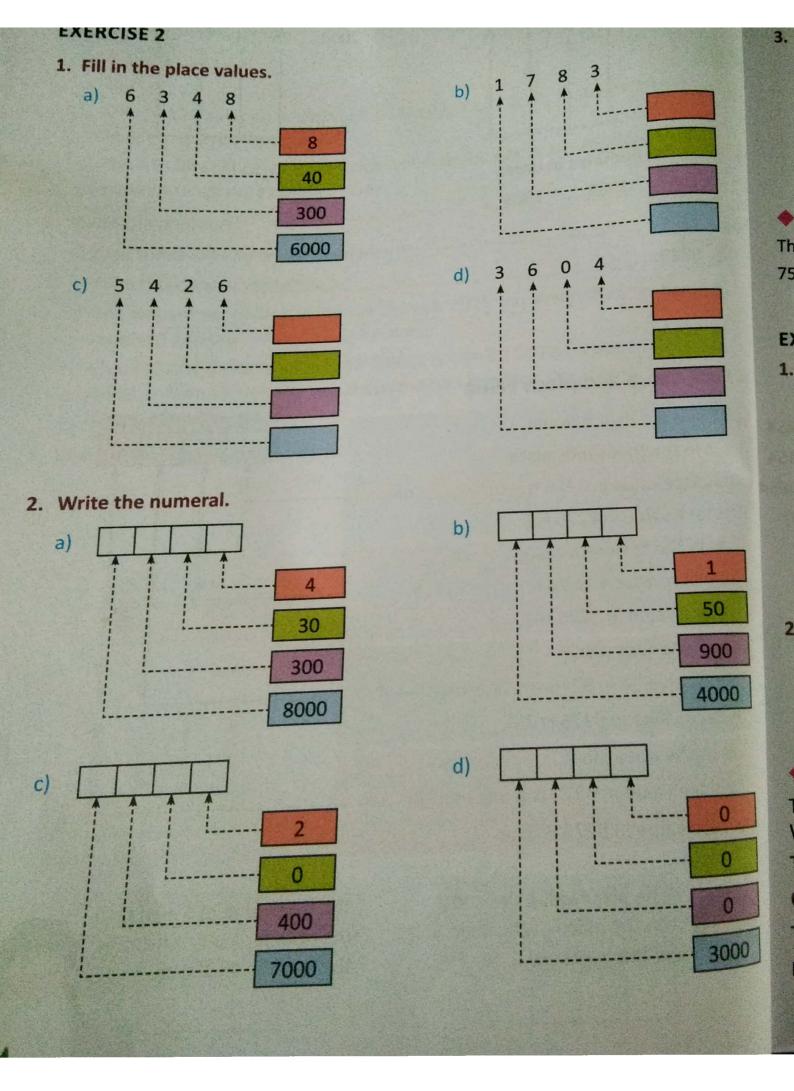
8020:



EXERCISE 1 1. Fill in the blanks and the table. a) thousands hundreds tens one Number Abacus Number name Th H T b) hundreds thousand tens ones Number Number name Abacus Th H 0 hundreds tens ones thousands Abacus Number name Number H Th 0

2. Write the number names.	25
a) 3711 =	和到
b) 8094 =	er
b) 8094 =	
of tigers as a number name. d) The Nile River in Egypt is the longest river in the world. It is 6650 km long Write its length as a number name.	
3. Write the numbers.	50
a) One thousand four hundred twenty =	P)
b) Nine thousand seventy-one =	en
c) The leopard population in India in the year 2015 was seven thousand sevents.	
hundred and one Write this as a number.	
d) Chennai is at the level of the sea. Shimla is high up in the mountains. Shir is higher than Chennai by two thousand two hundred seventy-six metres	j.
Write this as a number.	
4. Write the number shown on each abacus. a) The Horizontal Distriction of the Horizontal Distr	0
d) Th H T O e) Th H T O f) Th H T	0
Show the number on the abacus.	
a) 2314 Th H T O b) 6203 Th H T O	





3. Write the place and place value of the digit in colour.

	Number	Place	Place value		Number	Place	Place value
a)	2436	tens		b)	3107		
q	7198			d)	6497	and the same and the	
e)	5010			f)	5010	A STATE	

Expanded form

The expanded form of 7534 is:

$$7534 = 7$$
 thousands + 5 hundreds + 3 tens + 4 ones (in words)
= $7000 + 500 + 30 + 4$ (in figures)

EXERCISE 3

Write the expanded form in figures.

a)	3684	207	3000	+	600	+	80	+	4
b)	5079	=	A STATE OF THE STA	+		+		+	
()	8173	=	and the same of th	+	-	+	-	+	
	4682			+		+	-	+	
e)	9590	=		+		+		+	

The place value of the digit 0 in a number is always zero. So we always write '0' whatever may be its position in a number.



2. Write the number.

Comparing numbers

The junior school library has 5430 books. The senior school library has 4988 books. Which library has more books? To answer this question you have to find which number is greater—5430 or 4988.

Comparing numbers with different number of digits

The number with more digits is always greater.

3878 > 8 3456 > 99 Examples: 2125 > 949



		E>4
Comparing numbers with same nur	nber of digits	5468 > 4972 as 5 > 4
First compare the thousands digit:	S.	7679 > 7590 as 6 > 5
 If the thousands digits are the sam hundreds digits. 	e, compare the	76/3 2453 < 8472 as 5 < 7
 If the thousands digits are the same hundreds digits. If the thousands and hundreds digits compare the tens digits. 	ts are the same,	7536 > 7530 as 6 > 0
4. If the thousands, hundreds and ten same, compare the ones digits.	s digits are the	7536
Ordering numbers	ll a	et number.
Ordering numbers Example 1: Identify the biggest numbe	r and the smalle	St Hand
5608 5809 897 462		
Biggest number: 5809 Small	lest number: 462	14 in ascending (increasing)
Example 2: Arrange the numbers 99, 54 order.	03, 954 and 385	22 22 5422 254 26
Write the smallest number first and o	cut it out from t	he list → 99; 99, 5403, 954, 38
Write the next higger number and CU	t it out from the	E 1130 / 334, 33, 3 100, ,
Write the next bigger number and cu	t it out from the	e list + 3654, 99, 5403, 99 1, 5
Write the biggest number and cut it o	ut from the list	→ 5403; 99, 5403, 954, 3854
Answer: 99, 954, 3854, 5403		
Example 3: Arrange in descending order:	2790, 4780, 79	23, 5613
Follow the same procedure as in Exam then the next smaller number and so o	ple 2, but write	e the biggest number first,
Biggest number: 7923	Next smaller n	
Next smaller number:	Smallest numb	per:
Answer: 7923,,,		
EXERCISE 4		
. Fill in the blanks with >, < or = signs.		
a) 834 < 1590	b) 999	1000
c) 4375 4162	d) 5910	5911
e) 7832 7838	f) 8544	8544
		Scanned with CamScanner
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2. Circle the greatest number.

- a) 813 1001 9990 270 b) 1285 1055 1135 1288
- c) 8461 8479 8439 8410 d) 98 1020 786 999

3. Circle the smallest number.

- a) 296 8532 100 1795 b) 8421 2148 4813 1589
- c) 7478 7470 7473 7474 d) 9305 953 1999 9315

4. Arrange the numbers in ascending order.

- a) 3747 1674 9542
- b) 8653 653 865
 - c) 8464 9894 3799 7877
- d) 7582 7959 7166 7745
- e) 3542 3561 3595 3519

5. Arrange the numbers in descending order.

- a) 2143 4782 5365
- b) 8104 7728 6540 4322
- c) 5321 5877 5108 5233
- d) 4492 4409 4465 4423
- e) 9243 9212 9290 9277

Forming greatest and smallest numbers

Example: Form the greatest and smallest 4-digit numbers using the digits:

7 6 0 9

To form the greatest 4-digit number, arrange the digits in decreasing order.

To form the smallest 4-digit number, arrange the digits in increasing order. But you cannot have 0 in the smallest 4-digit number, arrange the digits in get: 0.679 = 679You cannot have 0 in the thousands place, otherwise you get: 0.679 = 6.79 which is a 3 diam and

So if there is a 0, put it in the hundreds place and not in the thousands place,

The smallest 4-digit number is:

	1		45099
ALTERNATION.	MENU	-	0
6	0	7	9
0	U		Maleus
	Carry Miles		

EXERCISE 5

1. Use the given digits to make the smallest and greatest 4-digit numbers. smallest number

greatest number

-		-	100	
a	4,	2	11	A

32.5	47%	1.	-	(96-
0.00	-	-	3 .	-
E-22.22	The same	- 4	- 4	- 1

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Odd and even numbers

You have read in Class 2 that:

Numbers that can be put into pairs are called even numbers. Numbers that cannot be put into pairs are called odd numbers.



Even numbers have 0, 2, 4, 6 or 8 in the ones place.

Odd numbers have 1, 3, 5, 7 or 9 in the ones place.



EXERCISE 6

1. Colour the boxes with even numbers green. Colour the boxes with odd numbers blue.

67	677	776	600	700	701
2425	2426	2427	2428	2429	2430
8000	8001	8011	8022	8123	8888
5670	7650	7561	5761	5055	5550

Predecessor and successor

355

355 comes just before 356.
355 is the predecessor of 356.
We get the predecessor by subtracting 1 from the number.
355 = 356 - 1



356

357 comes just after 356. 357 is the successor of 356. We get the successor by adding 1 to the number. 357 = 356 + 1

357

EXERCISE 7

1. Fill in the blanks.

	Predecessor	Between	Successor
a)	3163	3164	3165
b)	9479		9481
c)	5788	5789	
d)		5130	
e)		7399	

SKILLS SECTION (calculation, application and analysing skills)

Mental Maths

What is:

- 1. 1 less than
 - a) ____4783
 - b) ____5604
 - c) _____3299
- 5. 100 less than
 - a) 7542
 - b) _____6135
 - c) _____8085

- 2. 1 more than
 - a) 3862 ____
 - b) 7000 ____
 - c) 5999 ____
- 6. 100 more than
 - a) 2891 ____
 - b) 6013 ____
 - c) 5940 ____

- 3. 10 less than
 - a) _____6580
 - b) _____7933
 - c) _____8591
- 7. 1000 less than
 - a) 9284
 - b) _____5009
 - c) _____1676

- 4. 10 more than
 - a) 2004 ____
 - b) 7952 ____
 - c) 3491 ____
- 8. 1000 more than
 - a) 8049 ____
 - b) 1450 ____
 - c) 999 ____



Mixed Bag

- 1. Choose the correct answer.
 - a) The smallest 4-digit number is:

iii. 0001

- 1. 1111
- ii. 1000
- b) The greatest 4-digit number is:

iii. 10000

iv. 9000

iv. 1001

- c) The smallest 4-digit number formed by the digits 6, 0, 0, 9 is:

iv. 6900

- 1. 0069
- 11. 6009
- d) The face value of 5 in 3567 is:

iv. 5

i. 5000

i. 9999

ii. 500

iii. 50

- e) Which is the largest 4-digit even number?
 - ii. 9998

iii. 9000

iv. 10000

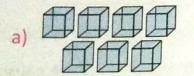
- f) The place value of 0 in 6079 is:
 - i. 0

ii. 10

iii. 100

iv. 1000

2. Write the number and the number name.







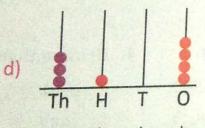


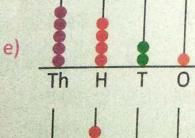


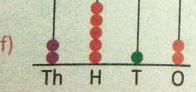












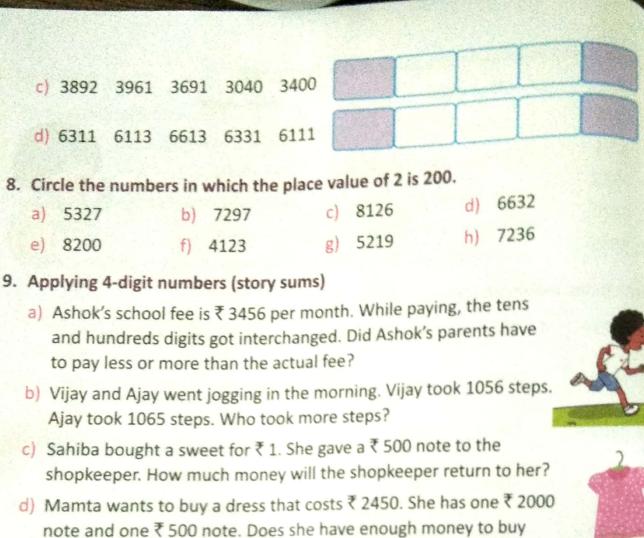








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a) 7596			Villatonias (at)					
6) 8201						-1162		re-construction of the second
c) 1355	TELEVISION							merhosing and assessment of the Confession of th
d) 7420	STORE COMM		constitution and			100		and the second s
8) 5085		Military spaces	William Lorin			-	to distribution and	School (Million on principal Justicipae)
. Write in the ex	manded	form.						
a) 9473 = 9	Th+	4	H+	7]T+[3	0=	9000 + 400 + 70 + 3
b) 7782 =	Th+		H+	paga may may]+T		0=	etilistet et sam ja kain alsitatus ja ja samatalikuum, muun fyn samunka tunnistet attavat van ja
c) 4803 =			H+		T+		0=	
d) 6200 =	Th+	piniones to be expected.	H+	and the same of th	T+		0=	ell som ble eller blegget gregger er havega som værge, verk og er gren fra sættige ynner gan som ellere
e) 8070 =	Th+		H+		T+		0=	
Fill in the blank	ks with <	, >, 0	r=.					
a) 4359	682			9833	3	3	601	c) 3647 () 36
Market Harrist Control of the				9956	7			
d) 5906	5449		e)	000	1) 0	853	f) 6938 () 69
			e)	003:) 0	853	1) 6938 69
d) 5906 Arrange in asce a) 4563 5368	ending o	rder.		003:		0	853	1) 6938 69
Arrange in asce	ending o	rder. 680	95	003		0 00000	853	1) 6938 69
Arrange in asce a) 4563 5368	anding of 3 3616 2056	680 275	95	999			853	f) 6938 69
Arrange in asce a) 4563 5368 b) 2506 2560	ending of 3 3616 2056 5900	680 275 582	95	999			853	1) 6938 69
Arrange in asce a) 4563 5368 b) 2506 2560 c) 5009 5090 d) 9091 9109	ending of 3 3616 2056 5900 9901	rder. 680 275 582 919)S S S S S S S O 9	999			853	1) 6938 69
Arrange in asce a) 4563 5368 b) 2506 2560 c) 5009 5090 d) 9091 9109 Arrange in desc	ending of 3 3616 2056 5900 9901 mending of	76er. 680 275 582 919 order	05 65 63 4 60 9	999			853	1) 6938 69
Arrange in asce a) 4563 5368 b) 2506 2560 c) 5009 5090	ending of 3 3616 2056 5900 9901 mending of	76er. 680 275 582 919 order	05 65 63 4 60 9	999			853	f) 6938 (69





Higher Order Thinking Skills

the dress?

- In which number is the underlined digit worth 60?
 - a) 46
- b) 65
- c) 654
- d) 3256

- 2. A number has:
 - 7 hundreds
 - 4 fewer tens than one hundred has, and
 - 3 fewer units than one ten has.

Which of the following is the number?

- a) 743
- b) 763 c) 767
- d) 747
- 3. In which place, is the place value of a number the same as its face value?
 - a) Ones place
- b)Tens place
- c) Hundreds place
- d) Thousands place

- 4. Which of the following is equal to 343?
 - a) 340 tens plus three

b) 34 tens plus 30 ones

c) 30 tens plus 34 ones

d) 30 tens plus 43 ones

- 5. Preet has to make the greatest number using 4 different digits. One of the digits is 0. In which place will he put 0?
 - a) Ones
- b) Tens
- c) Hundreds
- d) Thousands

Problem Solving

- 1. If you add 1 to the greatest 4-digit number, what do you get?
- 2. What is the difference between the successor and predecessor of a number?
- 3. Which is the smallest 4-digit number in which all digits are different?
- 4. Which is the greatest 4-digit number in which all digits are different?
- 5. Manav and his three neighbourhood friends were born in the following years.

Manav: 2000

Manisha: 1997

Arnav: 2004

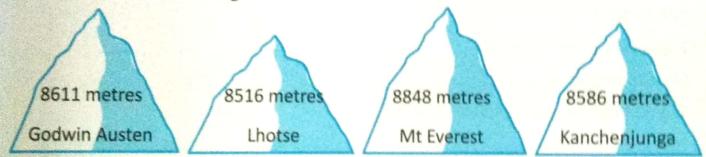
Somya: 1999

Arrange the children's names in ascending order of their ages.

Cross-curricular Practice

The four highest mountains in the world have the following heights from sea level.

Arrange them in descending order.



ACTIVITIES SECTION



Maths Lab Activity

Objective: Making 4-digit numbers

Material required: Number cards 0-9, made on cardboard.

Method: Let students work in groups of five. Give each group a set of number cards 0–9. Let them make 4-digit numbers using the cards.

- One student in the group makes ten 4-digit numbers beginning with 1, by arranging the three other cards.
- The second student records each number in figures.

- The third student records them in words.
- The fourth student records them in expanded form.
- The fifth student identifies the greatest and smallest numbers made.

Change the duties allotted to the students, with the second student making number beginning with 2, and so on.

Fun Activity

Solve the crossword puzzle.

Across

- 1. 100 more than 3128
- 2. The successor of 999
- 3. Five thousand six hundred four
- 4. 10 more than 2000

Down

- Counting in thousands, the number before 4125.
- 2 thousands 5 tens 2 ones.
- 6. Eight thousand sixty
- 7 The number between 5400 and 5402.

Project

Work in groups of 5 to find out the lengths of 5 of the world's longest rivers in kilometres. Arrange the lengths in descending order.

You can find the lengths from the site: http://en.wikipedia.org/wiki/List_of rivers by length

1	5	6		
2				7
	3			
	4		N 1 2 B	

WORKSHEET



1. Write the number name. 7245 =	
2. Write in expanded form. a) 4768 = + + + + + + + + + + + + + + + + + +	
3. Fill in the blanks with <, > or =. a) 1756 1278 b) 976 2123	
1. Write the number: Two thousand and twenty-five =	В
 2. Write the number. a) 5000 + 600 + 0 tens + 0 ones = b) 3000 + 6 = 	
3. a) Circle the greatest number. b) Circle the smallest number. 5050, 4050, 4300, 5300, 4005	
L. Arrange the numbers in ascending order.	C
a) 4276, 4726, 4706, 4076	
b) 8690, 6897, 6890, 860	
a) 6345, 6453, 876, 654	-
b) 4002, 598, 3452, 4102	
Use the given digits to make the smallest and greatest 4-digit numbers.	
Greatest number Smallest number	
a) 3, 1, 0, 6	
b) 9, 0, 5, 0	



Learning Outcomes

At the end of this lesson, you will be able to:

- add up to 4-digit numbers with and without grouping.
- state the properties of addition.
- apply the skill of addition to solve real-life problems.

GET STARTED

Addition in real life

Maninder and Maya are very interested in aeroplanes.



You know, Maya, this is the picture of an Airbus A380-800. It is the largest passenger aeroplane in the world.

Wow! It does look huge!





It has two decks. The lower deck can seat up to 538 passengers and the upper deck can seat up to 315 passengers.

Oh yes! I can see the upper and lower windows in the picture. How many people in all can sit on it, Maninder?





I am sure you can calculate on your own, Maya.



Can you help Maya find out the total number of passengers that can travel in the plane?

Photograph by Ienac from the German Wikiped [1] - Own work, Public Domain, https://common wikimedia.org/w/index.php?curid=3751757



Check what you know

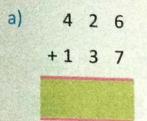
1. Add (without regrouping).

+2 3 7

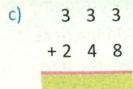
a)

b) 1 3 7 +6 0 2 c) 2 0 3 2 3 4 +1 5 1

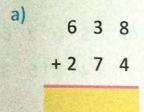
2. Add (regrouping of ones).



b) 5 0 7 +3 1 8



3. Add (regrouping of tens and ones).

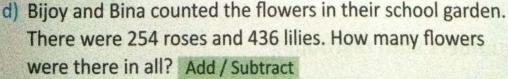


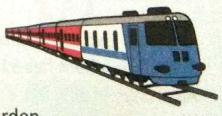
b) 2 9 8 +3 4 7

c) 5 8 6 1 9 8 +1 7 6

4. Will you add or subtract to get the answer? Solve the problems where you have to add.

- a) 265 people attended a music show on Saturday. 331 people attended it on Sunday. How many people in all attended the show? Add / Subtract
- b) Minto read two books in the holidays. One book had 236 pages. The other book had 164 pages. How many pages did he read in all? Add / Subtract
- c) There were 567 people on a train. 234 people got down at a station. How many people are there on the train now? Add / Subtract







CONCEPTS SECTION

Addition of 4-digit numbers without regrouping

Example: Add 3325 and 2231.

Adding 4-digit numbers is just like adding 3-digit numbers. Arrange the numbers one below the other as shown and add.

Always start from the ones.

Step 1: Add the ones.

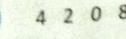
Step 2: Add the tens.

Step 3: Add the hundreds. +

Step 4: Add the thousands.

Th	Н	T	0		8 8
3	3	2	5	+ 4040 00 1	*
+ 2	2	3	1		
5	5	5	6	The spring of the second second	

EXERCISE 1: Add.



+4 4 5

- In a school library, there are 3425 story books and 2304 subject books. How many books are there in the library?
- Aarti has two stamp albums. One album has 2306 stamps. The other album has 3143 stamps. How many stamps does Aarti have in all?



Adding 3-digit numbers with regrouping

When you add 3-digit numbers, sometimes you get a 4-digit answer.

Example: Add 643 and 576.

Step 1: Add the ones.

3+6=9

Step 2: Add the tens and regroup.

4 + 7 = 11

11 tens = 1 hundred + 1 ten

Step 3: Add the hundreds and regroup.

1+6+5=12

12 hundreds = 1 thousand + 2 hundreds



Answer: 1219

EXERCISE 2: Add.

+8 3 8

b)

4 4

+86

c)

5 3 6

+6 0 7

d) 6 0 6

+9 6 0



e) 4 5 6

+6 5 4

f) 8

8

+222

3 8 6 g)

+8 3 9

h) 9 1 4

+9 0 9



i) 559 children bought books from a school bookshop on the first day. 463 children bought books on the second day. How many children bought books in the two days?

- j) There are 663 horses and 527 cows in a farm. How many animals are there in the farm?
- Adding 4-digit numbers with regrouping

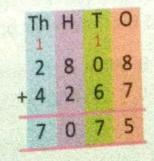
Refer Maths Lab Activity on page 32

Example 1: Add 2808 and 4267.

Step 1: Add the ones: 8 + 7 = 15

15 ones = 1 ten + 5 ones

Step 2: Add the tens: 1+0+6=7



Step 3: Add the hundreds: 8 + 2 = 10

10 hundreds = 1 thousand + 0 hundreds

Step 4: Add the thousands: 1 + 2 + 4 = 7

Answer: 7075

Example 2: Manav's tablet computer costs ₹ 5235. Rachna's tablet computer costs ₹ 1275 more than Manav's tablet computer. What is the cost of Rachna's tablet computer?

Look at the bars. Cost of Manav's tablet computer:

₹ 5235

Cost of Rachna's tablet computer:

₹5235 |₹1275

You can see that to get the cost of Rachna's tablet computer, you have to add ₹ 5235 and ₹ 1275.

Rachna's tablet computer costs ₹

5235 +1275

EXERCISE 3: Add.

- i) In a train, there are 1570 first-class seats and 2550 second-class seats. How many people can sit in the train?
- j) 2559 people visited the Trade Fair in Delhi on Saturday. On Sunday, 3405 more people than Saturday visited the Trade Fair. How many people visited the Trade Fair on Sunday?

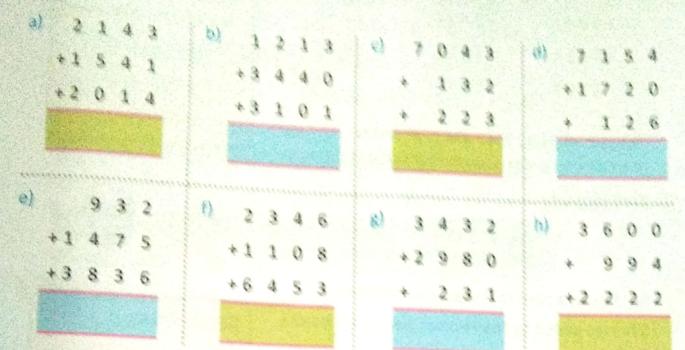
Example 3: What is the sum of 3250, 1336 and 5405?

3 2 5 0 1 3 3 6 +5 4 0 5 9 9 9 1



EXERCISE 4:

Add.



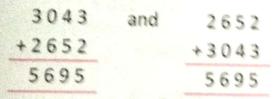
Properties of addition

1. Order property

Two numbers can be added in any order. Their sum remains the same.

3043 men and 2652 women add up to 5695 people.

2652 women and 3043 men also add up to 5695 people.





2. Grouping property

Three numbers can be added in any order.
Their sum remains the same.



3043 + 2652 = 2652 + 3043

To add three numbers, group any two numbers and add.

Add the sum to the third number.

(3426 men + 2041 women) + 1231 children = 6698 people

(2041 women + 3426 men) + 1231 children = 6698 people

(1231 children + 2041 women) + 3426 men = 6698 people

Rapid check Try a different order here:

The sum of 3426, 2041 and 1231 remains the same, in whichever order you arrange and add them.

3. Zero property

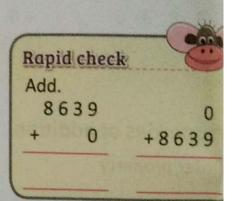
When 0 is added to a number, or when a number is added to 0, the sum is the number itself.



2432 cows added to 0 cows gives 2432 cows.

O horses added to 3659 horses gives 3659 horses.

2432	0
+ 0	+3659
2432	3659



EXERCISE 5: Use the properties of addition to add.

SKILLS SECTION (calculation, application and analysing skills)

Mental Maths

In the previous class, you learnt a simple method for carrying out certain types of additions mentally.

To add 9, add 10 and then subtract 1. To find 149 + 9:

First add 10: 149 + 10 = 159 Then, subtract 1: 159 - 1 = 158

To add 8, add 10 and then subtract 2. To find 2137 + 8:

First add 10: 2137 + 10 = 2147 Then, subtract 2: 2147 - 2 = 2145

Let us extend this further.



To add 19, first add 20 and then subtract 1. To find 158 + 19:

First add 20: 158 + 20 = 178 Then, subtract 1: 178 - 1 = 177



To add 18, first add 20, then subtract 2. To find 2147 + 18:

First add 20: 2147 + 20 = 2167 Then, subtract 2: 2167 - 2 = 2165

1. Work out the following mentally.

Work these out mentally.

Mixed Bag

1. Choose the correct answer.

a) If 1256 + 2456 is 3712, 2456 + 1256 is:

b) If 2406 + 3128 + 1096 = 6630, which of the following is true?

28.3	300				
And	TUU	more	than	4506	le.
		The state of the s	THE RESERVE	The same and the	100

- 4507
- 4516
- III. 5506
- iv. none of these
- d) The sum of the smallest 4-digit number and the largest 3-digit number is:
 - 1000
- 11. 9999
- III. 1099
- iv. 1999

2. Work these out in your notebook. Write the sum.

- c) 505 + 595
- e) 3333 + 2135 =
- g) 4850 + 3250 =
- 1) 3848 + 5909 =
- k) 5107 + 98 =

- b) 654 + 456 =
- d) 2043 + 5033 =
- f) 63 + 1015 =
- h) 4207 + 3489 =
- j) 6980 + 2289 =
- 1) 6378 + 967 =

3. Find the sum.

- 4 5 6 +1 3 4 +5 1 0 0
- b) 6 3 0 0 0 0 +1 6 7 5
- c) 5 0 1 + 3 2
- d) 6 +1 3 6

+ 1

2

1

8 6 2

- e) +1 3 9 9 +1 6 6 0
- f) 3 3 3 +2 4 6 0 2 2 2
- g) +1 1 0 5 +2 9 0 0
- h) 1 + 2

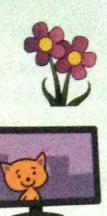
- i) 333 + 2460 + 22 =
- 2347 + 123 + 29 =

4. Applying addition (story sums)

a) Jim has 2084 stamps. His sister Simi has 5018 stamps. How many stamps do they have altogether?



- b) There are 5262 girls and 2416 boys in a college. Find the total number of students in the college.
- c) A florist had 3006 flowers. He bought an equal number more. How many flowers does he have now?
- d) Anil spent ₹ 6243 on Monday and ₹ 246 on Tuesday. How much money did he spend altogether?
- e) A television set costs ₹ 5400 and a sofa set costs ₹ 803. What is the total cost for both?
- f) There are 1343 books in English, 2481 books in Hindi and 3444 books in other languages in a library. How many books does the library have?
- g) What is 245 more than 5600?





Higher Order Thinking Skills

- 1. I had 132 marbles with me. I got 44 more from one friend and gave away 50 to another friend. How many marbles do I have now?
 - a) More than 132
- b) Less than 132 c) 132 marbles
- d) none of these
- 2. If the letters A to Z are given the values of 1 to 26 in the same order, then the sum of values of I and _____ is 20.
 - a) L
- b) M
- c) K
- 3. 1234 added to which number will give an answer of 1344?
 - a) 100
- b) 101
- c) 111
- d) 110
- 4. Which of the following numbers could be the sum of 122 and a 2-digit number?

 - a) 130 b) 222 c) 146
- d) 124
- 5. Manju travels 124 km by bus and 242 km by car. Manish travels 242 km by bus and 124 km by car. Which of the following statements is correct?
 - a) Manju has travelled more than Manish. b) Manish has travelled more than Manju.
 - c) Both have travelled the same distance.
 - d) We require more information to answer the question.

Problem Solving

1. There are 2006 mango trees, 3194 apple trees and 2413 banana trees in an orchard. How many mango and banana trees are there altogether?

(Hint: This sum has some additional information which you will not need to find the answer. What is the additional information?)

- 2. The double of 2447 is 2×2447 . Can you find the double of 2447 by addition?
- 3. Given that PAGE = 1798, what addition sum is represented by: EGG + EGG = PAGE? (Hint: What do E and G stand for?)

ACTIVITIES SECTION

Maths Lab Activity

Objective: To add 2345 and 3418 using cubes (thousands), sheets (hundreds), strips (tens) and slips (ones)

Material required: Cubes, sheets, strips and slips.

Method:

Step 1: Ask students to make the two numbers using cubes, sheets, strips and slips and place them one below the other.

Step 2: Ask them to put the ones together and count them. Since there are more than 10 ones, let them join 10 ones to make a ten and carry it to the tens side.

Step 3: Ask them to put the tens together and count them. Emphasise that the carried over 10 should also be added.

Step 4: Ask them to put the hundreds together and count them.

Step 5: Ask them to put the thousands together and count them.

Step 6: Now ask them how many thousands, hundreds, tens and ones they have, and record the sum.

Fun Activity

A story sum for 24 + 33 = 57 can be:

There are 24 boys and 33 girls in Class 3A. How many children study in Class 3A?

Frame your own story sums for the following additions.

Project

Note down the number of pages in each of your Class 3 textbooks. Add all of them to get the total number of textbook pages you have to read in a year.

	-	-			-	-	-
W	Q	K	K	75	16	E	I



B

- 1. Solve.
 - a) 2008 +3681
- b) 5631 +2045
- 2. My sister bought a pair of jeans for ₹ 2356 and a shirt for ₹ 1542. How much money did she spend in all?
- 1. Add.
 - a) 624 +1746
- b) 3 6 0 1 1 3 2 6 +2 0 6 1
- 2. There are 1106 roses, 450 lilies and 1230 tuberoses in a flower shop. How many flowers are there in the shop?
- 1. A = 624, B = 84 and C= 2306. Find A + B + C.

2. There are 1924 boys, 1973 girls and 235 staff members in a school. How many people are there in the school?

