

Mathematics

CLASS - 4

Chapter - 1

NUMBERS

Exercise - 11. Write in words:a) $3849 =$ Three thousand eight hundred forty nine.b) $5308 =$ Five thousand three hundred eight.c) $8075 =$ Eight thousand seventy five.d) $7777 =$ Seven thousand seven hundred seventy seven.2. Write in numeral form:

a) four thousand three hundred twenty = 4320

b) seven thousand four hundred eighty nine = 7489

c) one thousand nine hundred nine = 1909

d) Eight thousand seven hundred sixty five = 8765

3. Write in Expanded form:a) $6827 = 6000 + 800 + 20 + 7$ b) $3179 = 3000 + 100 + 70 + 9$ c) $8105 = 8000 + 100 + 00 + 5$ d) $4180 = 4000 + 100 + 80 + 0$ 4. Write in Short form:a) $3000 + 400 + 50 + 6 = 3456$ b) $7000 + 90 + 8 = 7098$ c) $4000 + 200 + 20 = 4220$ d) $6000 + 5 = 6005$

5. Fill in the blanks :

- a) The Predecessor of 2000 is = 1999
- b) The Successor of 3270 is = 3271
- c) The Place Value of 7 in 7125 is = 7000
- d) The Place Value of 0 in 2058 is = 0

6. Form the smallest and greatest 4-digit numbers using the digits 4, 0, 2, 1 without repeating the digits.

Smallest number = 1024

Greatest number = 4210

[Arranging the digits in ascending order, we get 0, 1, 2, 4. Now placing 0 at second place from left.

So, the smallest 4-digit number = 1024

Now,

Arranging the digits in descending order, we get 4, 2, 1, 0.

So, the greatest 4-digit number = 4210.

7. Arrange in ascending order :

a) 4217, 4315, 4035, 4479.

Arrange the numbers in the place-value chart

Th	H	T	O
4	2	1	7
4	3	1	5
4	0	3	5
4	4	7	9

Now,

Starting from the left most place, we compare the numbers.
we get,

4035 < 4217 < 4315 < 4479

b) 2893, 2983, 2398, 2978

Arrange the numbers in the place value chart

Th	H	T	O
2	8	9	3
2	9	8	3
2	3	9	8
2	9	7	8

Now,

Starting from the left most place, we compare the numbers. We get,

2398 < 2893 < 2978 < 2983

8. Arrange in descending order:

a) 1728, 7128, 8127, 2718

Arrange the numbers in the place value chart.

Th	H	T	O
1	7	2	8
7	1	2	8
8	1	2	7
2	7	1	8

Now,

Starting from the left most place, we compare the numbers. we get,

8127 > 7128 > 2718 > 1728

b) 9256, 9526, 9652, 9729

Arrange the numbers in the place value chart.

Th	H	T	O
9	2	5	6
9	5	2	6
9	6	5	2
9	7	2	9

Now,

Starting from the left most place, we compare the numbers. we get,

9729 > 9652 > 9526 > 9256

9. Compare the numbers using $>$, $<$ or $=$

a) $1002 < 1020$

b) $3540 > 3450$

c) $8357 = 8357$

d) $6825 < 6827$

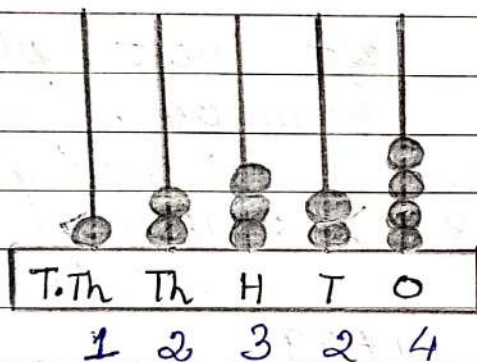
Exercise - 2

Exercise - 2

1.

Read the abacus and write the numbers

a)



b)

54241

c)

10.636

2

Read the abacus and write the numbers.

a)

136289

b)

305826

c)

926158

d)

4162495

e)

6931462

f)

95274813

g)

61842509

Exercise-3

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1. write the number names (In Indian System).

a) $53,125 =$ Fifty three thousand one hundred twenty-five.

b) $1,87,819 =$ one lakh eighty seven thousand eight hundred nineteen.

2. write the number names (In International System):

a) $412,351 =$ Four hundred twelve thousand three hundred fifty one.

b) $3,993,457 =$ Three million nine hundred ninety three thousand four hundred fifty seven.

3. write the number putting commas at the right places:

a) Eight lakh ninety nine thousand four hundred twelve $= 8,99,412$

L	T.Th	Th	H	T	O
8	9	9	4	1	2

$= 8,99,412$

b) $7,25,931$

c) $235,469$

d) $1,402,075$

4. Write the smallest and greatest 7-digit numbers both in figures and in words in Indian and International System.

a) Indian number system

Smallest 7-digit number = 10,00,000

Smallest 7-digit no. in words = Ten lakh.

Greatest 7-digit number = 99,99,999

Greatest 7-digit no. in words = Ninety nine lakh ninety nine thousand nine hundred ninety nine.

b) International number system

Smallest 7-digit number = 1,000,000

Words = One million

Greatest 7-digit number = 9,999,999

Words = Nine million nine hundred ninety nine thousand nine hundred ninety nine.

Exercise - 4

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

a) 13, 7 9 1

Face Value = 7

L	TTh	Th	H	T	O
	1	3	(7)	9	1

Place Value of 7 at hundreds place =
 $7 \times 100 = \underline{700}$

b) 24,352

Face Value = 4

L	T.Th	Th	H	T	O
	2	(4)	3	5	2

Place Value of 4 at thousands place =
 $4 \times 1000 = \underline{4000}$

c) 1,47, 173 = $7 \times 1000 = 7000$

d) 3,56, 735 = $5 \times 10000 = 50,000$

e) 8, 23, 179 = $8 \times 100,000 = 8,00,000$

f) 51, 757 = $5 \times 1000 = 5000$

g) 67, 236 = $7 \times 1000 = 7000$

h) 9, 87, 617 = $9 \times 100,000 = 9,00,000$

2. Find the difference between the place value and face value of 6 in 3526521.

Solⁿ The Face Value of 6 = 6,
Place Value in 3526521 = thousands

∴ The Place Value of 6 = $6 \times 1000 = 6000$

Difference = $6000 - 6 = \underline{5994}$.

3. Find the sum of Place values of the two 5s in 235257.

Solⁿ Place value of 5 at tens place = $5 \times 10 = 50$
Place value of 5 at thousand place =
 $5 \times 1000 = 5000$

Sum of the Place values = $5000 + 50$
 $= \underline{5050}$

4. Write the expanded form of the following numbers:

a) 25,308 = $20,000 + 5000 + 300 + 00 + 8$

b) 75,173 = $70,000 + 5,000 + 100 + 70 + 3$

c) 1,137,478 = $1,00,000 + 30,000 + 7,000 + 400 + 70 + 8$

S. Write the short form of the following numbers:

$$\begin{aligned} \text{a) } 1,00,000 + 30,000 + 2,000 + 100 + 70 + 6 \\ = 1,32,176 \end{aligned}$$

$$\begin{aligned} \text{b) } 5,00,000 + 60,000 + 5,000 + 400 + 80 + 7 \\ = 5,65,487 \end{aligned}$$

$$\begin{aligned} \text{c) } 9,00,000 + 90,000 + 9,000 + 900 + 90 + 9 \\ = 9,99,999 \end{aligned}$$

Exercise - 5

Exercise - 5

1. Write the successor of :

a) $13,598 = 13,598 + 1 = 13,599$

b) $25,009 = 25,009 + 1 = 25,010$

c) $1,23,478 = 1,23,478 + 1 = 1,23,479$

d) $3,47,199 = 3,47,199 + 1 = 3,47,200$

e) $7,38,099 = 7,38,099 + 1 = 7,38,100$

f) $9,99,999 = 9,99,999 + 1 = 10,00,000$

2. Write the predecessor of :

a) $39,498 = 39,498 - 1 = 39,497$

b) $57,000 = 57,000 - 1 = 56,999$

c) $92,450 = 92,450 - 1 = 92,449$

d) $1,73,970 = 1,73,970 - 1 = 1,73,969$

e) $8,48,300 = 8,48,300 - 1 = 8,48,299$

f) $1,00,000 = 1,00,000 - 1 = 99,999$

3. Write $>$, $<$ or $=$ in the boxes :

a) 10,337	$<$	10,370
b) 72,478	$>$	72,378
c) 9,999	$=$	9,999
d) 1,22,115	$<$	1,23,115
e) 5,28,179	$>$	4,28,179
f) 4,38,790	$<$	4,48,790

4. Circle the largest number :

a) 1,23,410, 1,23,425, 1,23,517, 1,23,620

L	TTh	Th	H	T	O
1	2	3	4	1	0
1	2	3	4	2	5
1	2	3	5	1	7
1	2	3	6	2	0

Comparing the numbers, we see that the digits at lakhs, ten thousands and thousands places are same.

So,
we compare the digits at the hundreds place.

So,
1,23,620 is the largest number.

b) 197,630 , 198,715 , 199,215 , 195,768.

HTH	TTh	Th	H	T	O
1	9	7	6	3	0
1	9	8	7	1	5
1	9	9	2	1	5
1	9	5	7	6	8

Comparing the numbers, we see that the digits at hundred thousands and ten thousands places are same.

So,

we compare the digits at the thousands places.

So,

199,215 is the largest number.

5. Arrange in ascending order :

a) 20,280 , 20,820 , 20,028 , 20,082

TTh	Th	H	T	O
2	0	2	8	0
2	0	8	2	0
2	0	0	2	8
2	0	0	8	2

So,

we get the numbers in ascending order as

20,028 < 20,082 < 20,280 < 20,820

by 3,17,230 , 4,17,230 , 5,28,470 , 4,28,217

L	TTh	Th	H	T	O
3	1	7	2	3	0
4	1	7	2	3	0
5	2	8	4	7	0
4	2	8	2	1	7

- Comparing the left most digit, we see that 3,17,230 is the smallest and 5,28,470 is the greatest number.

- Comparing 4,17,230 and 4,28,217 we see that, $4,28,217 > 4,17,230$

So, we get the numbers in ascending order as

$$\underline{3,17,230} < \underline{4,17,230} < \underline{4,28,217} < \underline{5,28,470}.$$

6. Arrange in descending order:

by 92,173 , 93,234 , 90,148 , 92,345 , 91,172.

TTh	Th	H	T	O
9	2	1	7	3
9	3	2	3	4
9	0	1	4	8
9	2	3	4	5
9	1	1	7	2

So, we get the numbers in descending order as

$$\underline{93,234} > \underline{92,345} > \underline{92,173} > \underline{91,172} > \underline{90,148}$$

by 8,23,333 , 8,43,126 , 8,17,338 , 8,17,238 , 8,34,126

L	TTh	Th	H	T	O
8	2	3	3	3	3
8	4	3	1	2	6
8	1	7	3	3	8
8	1	7	2	3	8
8	3	4	1	2	6

Comparing from the left most digit,
we see that the digits at lakhs.
place are same.

we compare the digits at the ten thousand
place.

8,43,126 is the greatest and 8,17,238 is
the smallest number.

So,

8,43,126 > 8,34,126 > 8,23,333 > 8,17,338 > 8,17,238

Exercise - 6

Exercise-6

1. Write the smallest and greatest 4-digit numbers using each of the following digits only once:

a) 4, 2, 9, 7

Arranging the digits in ascending order, we get,

2, 4, 7, 9

So, the smallest 4-digit number is 2479.

Arranging the digits in descending order, we get,

9, 7, 4, 2

So, the greatest 4-digit number is 9742.

Smallest = 2479

Greatest = 9742

b) 1, 3, 7, 0

Smallest = 1037

Greatest = 7310

c) 5, 9, 3, 1

Smallest = 1359

Greatest = 9531

2. Write the smallest and greatest 5-digit numbers using each of the following digits, repeating 4 times:

a) 1, 4, 2, 5

Arranging the digits in ascending order,
we get, 1, 2, 4, 5
So,

the smallest 5-digit number repeating
4 times = 12445.

Arranging the digits in descending order,
we get, 5, 4, 2, 1
So,

the greatest 5-digit number repeating
4 times = 54421.

Smallest = 12445

Greatest = 54421

b) 3, 4, 0, 8

Smallest = 30448

Greatest = 84430

c) 9, 3, 4, 5

Smallest = 34459

Greatest = 95443

3. Form the smallest 6 digit number using the digits 1, 3, 0, 5, 7 and 6 each only once.

Solⁿ Arranging the digits in ascending order, we get,

0, 1, 3, 5, 6, 7

So,

The smallest 6-digit number = 103567

4. Form the greatest 6-digit number using the digits 7, 8, 9, 3 and 5 repeating 8 twice.

Solⁿ Arranging the digits in descending order, we get, 9, 8, 7, 5, 3

So,

Greatest 6-digit number repeating 8 twice
= 988753

5. Form the smallest 5-digit number using the digits 1, 3, 5 and 0 repeating 1 twice.

Solⁿ Arranging the digits in ascending order, we get 0, 1, 3, 5

So,

Smallest 5-digit number repeating 1 twice
= 10135

Exercise - 7

Exercise - 7

1. Round off to the nearest tens:

a)

57

The ones digit $7 > 5$,So, 57 is rounded off to 60.

b)

93

The ones digit $3 < 5$.So, 93 is rounded off to 90.

c)

291

The ones digit $1 < 5$.So, 291 is rounded off to 290.

d)

375

The ones digit is 5,

So, 375 is rounded off to 380.

e)

588

The ones digit is $8 > 5$,So, 588 is rounded off to 590.

f)

774

The ones digit $4 < 5$,So, 774 is rounded off to 770.

g)

819

The ones digit $9 > 5$.So, 819 is rounded off to 820.

h)

983

The ones digit $3 < 5$,So, 983 is rounded off to 980.

i) 1733
The ones digit $3 < 5$,
So, 1733 is rounded off to 1730.

ii) 35.876
The ones digit $6 > 5$,
So, 35.876 is rounded off to 35880.

2. Round off to the nearest hundreds:

a) 446
The tens digit $4 < 5$,
So, 446 is rounded off to 400.

b) 719
The tens digit $1 > 5$,
So, 719 is rounded off to 700.

c) 983
The tens digit $8 > 5$,
So, 983 is rounded off to 1000.

d) 1185
The tens digit $8 > 5$,
So, 1185 is rounded off to 1200.

e) 1736
The tens digit $3 < 5$,
So, 1736 is rounded off to 1700.

f) 6253

The tens digit is 5,
So, 6253 is rounded off to 6300.

g) 8899

The tens digit $9 \geq 5$,
So, 8899 is rounded off to 8900.

h) 15.728

The tens digit $2 < 5$,
So, 15.728 is rounded off to 15700.

i) 18.997

The tens digit $9 \geq 5$,
So, 18.997 is rounded off to 19,000.

j) 24364

The tens digit $6 \geq 5$,
So, 24,364 is rounded off to 24,400.

3. Round off to the nearest thousands:

a) 3278

The hundreds digit $2 < 5$,
So 3278 is rounded off to 3000.

b) 6938

The hundreds digit $9 \geq 5$,
So, 6938 is rounded off to 7000.

c) 7171

The hundreds digit is 1 < 5.
So, 7171 is rounded off to 7000.

d) 9569

The hundreds digit is 5
So, 9569 is rounded off to 10,000.

e) 10734

The hundreds digit is 7 > 5
So, 10734 is rounded off to 11,000.

f) 12617

The hundreds digit is 6 > 5.
So, 12,617 is rounded off to 13,000.

g) 45817

The hundreds digit is 8 > 5
So, 45,817 is rounded off to 46,000.

h) 73417

The hundreds digit is 4 < 5.
So, 73,417 is rounded off to 73,000.

i) 99978

The hundreds digit is 9 > 5
So, 99,978 is rounded off to 100,000.

j) 32871

The hundreds digit is 8 > 5,
So, 32,871 is rounded off to 33,000.

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Tick (✓) the correct answer.

1. which is the same as 60 tens?

(c) 6 hundreds ☒

$$60 \text{ tens} = 60 \times 10 = 600 = 6 \text{ hundreds.}$$

2. The sum of the place values of two 4s
in 401406 is

(a) 400400 ☒

$$\begin{aligned} \text{The sum of the place values of two 4s} \\ = 4,00,000 + 400 = 400400 \end{aligned}$$

3. A 5x digit number begins with _____ place.

(a) Lakhs ☒

4. The difference between the greatest and smallest 4-digit numbers formed by the digits 1, 2, 3, 4 is

(b) 3087 ☒

$$\begin{aligned} \text{Greatest 4-digit number} &= 4321 \\ \text{Smallest 4-digit number} &= 1234 \end{aligned}$$

$$\begin{aligned} \text{Difference} &= 4321 - 1234 \\ &= \underline{3087} \end{aligned}$$

Review Exercise

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1. Write the number names of :

a) 3,52,179 = Three lakh fifty two thousand one hundred seventy nine.

b) 6,825,173 = Six million eight hundred twenty five thousand one hundred seventy three.

2. Write the number for :

a) Seven lakh forty two thousand eight hundred thirty. = 7,42,830

b) Thirty eight thousand seventy. = 38,070

c) Six hundred two thousand five hundred twenty eight. = 602,528.

3. Write the place value of each of the underlined digits :

a) 26,278 = $6 \times 1000 = 6000$

b) 3,28,346 = $8 \times 100 = 800$

c) 9,11,324 = $9 \times 1,00,000 = 9,00,000$

d) 287,783 = $7 \times 1000 = 7000$

4. Round off the following :

a) 2475 to the nearest hundreds.

The tens digit 7 > 5,
So, 2475 is rounded off to 2500.

b) 32,754 to the nearest thousands.

The hundreds digit 7 > 5,
So, 32,754 is rounded off to 33,000.

5. Arrange in descending order:

1,82,824 , 1,84,728 , 1,84,628 , 1,85,625

L	TTh	Th	H	T	O
1	8	2	8	2	4
1	8	4	7	2	8
1	8	4	6	2	8
1	8	5	6	2	5

Digits at lakhs and ten thousands places are same.

So, we compare the digits at the thousand place.

1,85,625 is the greatest and
1,82,824 is the smallest number.

So,

The numbers in descending order are

1,85,625 > 1,84,728 > 1,84,628 > 1,82,824