



SNBP International & Sr. Secondary School, Chikhali, Pune.

Affiliation No. 1130703

Academic session 2024-25

Lno-4 Notes -(Term-1)

CLASS :III

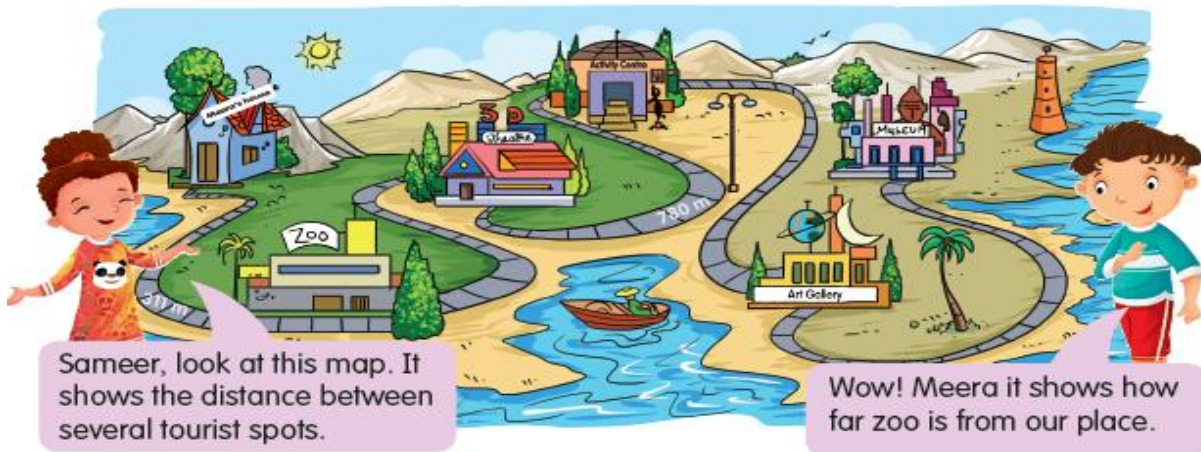
Prepared by -Rajni

SUBJECT: Maths

L –4 Operations on large numbers

Pre- activity -Let's Begin (Page no 111) in text book

Let's Begin



Sameer, look at this map. It shows the distance between several tourist spots.

Wow! Meera it shows how far zoo is from our place.

Observe the map and answer the following questions.

- a Find the distance between Activity Centre and Art Gallery if the distance between the 3D Theatre and Art Gallery is 1200 m. 420 m
- b Find the distance between Zoo and the 3D Theatre if it is 267 m more than the distance between Zoo and Meera's house. 578 m
- c Meera wants to visit the two closest tourist spots to her home. Name them. Zoo 3D Theatre
- d Sameer loves to travel. Observe the map and help him to identify the tourist spot that is the farthest from Zoo. Museum
- e Tick (✓) the option that will be more than 800 m apart.
- | | | |
|------|---------------------------------|-------------------------------------|
| i. | Meera's house and Zoo | <input type="checkbox"/> |
| ii. | Activity Centre and Art Gallery | <input type="checkbox"/> |
| iii. | Zoo and Activity Centre | <input checked="" type="checkbox"/> |
| iv. | 3D Theatre and Zoo | <input type="checkbox"/> |

Concrete Stage

Use 'Place Value Counters' to find the sums.

a $134 + 52 = 186$

b $436 + 515 = 951$

c $673 + 234 = 907$

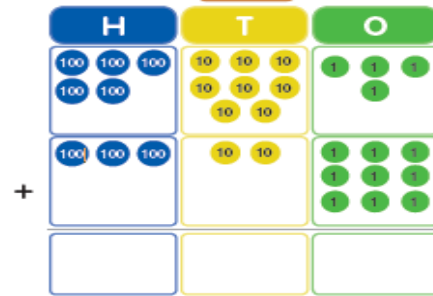
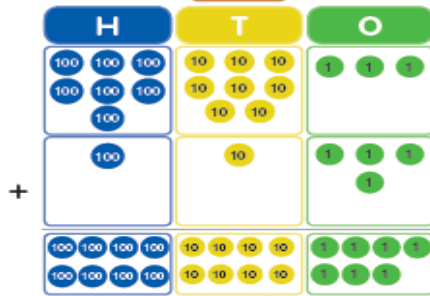
d $583 + 260 = 843$

Pictorial Stage

Group the place value counters, and find the sums.

a $783 + 114 = 897$

b $584 + 329 = 913$



Abstract Stage

1 Solve the following questions.

a Mark is trying to find the number of students studying in his school. There are 458 boys and 524 girls. Find the total number of students in his school.

$458 \text{ boys} + 524 \text{ girls} = 982 \text{ students}$



b In an art gallery, 243 art pieces were sold before noon and 389 art pieces were sold after noon. Find the total number of art pieces sold in the day.

$243 \text{ art pieces} + 389 \text{ art pieces} = 632 \text{ art pieces sold in a day.}$



2 Help Jane to find out the total number of visitors in the following places.

a 511 at the museum and 321 at the art gallery

Museum	+	Art gallery	=	total
511		321		832

b 121 at the 3D theatre and 463 at the zoo

3D theatre	+	Zoo	=	total
121		463		584

4.2 Subtraction With and Without Regrouping



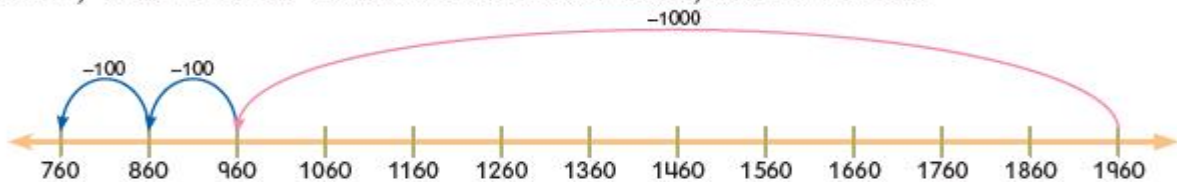
After travelling 1960 m from 3D Theatre to Museum, I noticed the distance from 3D Theatre to Art Gallery is 1200 m. What is the distance between Art Gallery and Museum? Can you help me to calculate it?



Yes, we will subtract 1200 from 1960. Let's use a number line to subtract and find the answer.

$$1960 - 1200 = \boxed{760}$$

To subtract numbers using a number line, we always move backward. We know, $1200 = 1000 + 200$. First subtract 1000, and then 200.



$$1960 - 1200 = \boxed{760}$$

The distance between Art Gallery and Museum is 760 m.

Concrete Stage

Use 'Place Value Counters' to solve the problem. Follow your teacher's instructions.

In an art library, there were 985 paintings. If 54 paintings were damaged, find the number of paintings in good condition.



Answer: **Answer may vary.**

Pictorial Stage

1 Look at the counter representations. Cross out (x) the counters to complete these subtraction number sentences.

a $284 - 53 = \boxed{231}$



b $583 - 471 = \boxed{112}$

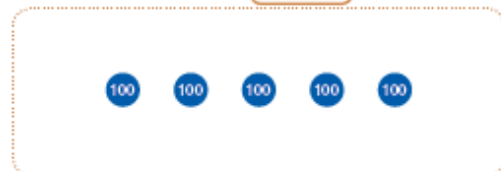


2 Draw counters to represent and complete the given subtraction sentences.

a $7302 - 4211 = \boxed{3091}$



b $4521 - 4021 = \boxed{500}$



Abstract Stage

Solve the following questions.

- a In a park, there were 243 outdoor equipments. 39 of them were non-working equipments. Find the number of working equipments.

Outdoor equipments = $\boxed{243}$

Non-working equipments = $\underline{39}$

Working equipments: $243 - 39 = \underline{204}$

Bar model: 

H	T	O
2	4	3
-	3	9
2	0	4

- b Mohan went to a 3D theatre. There were 984 visitors in all. 291 of them were the kids and rest were the adults. Find the number of adults.

Total number of visitors: $\underline{984}$

Number of kids: $\underline{291}$

Number of adults: $\underline{984} - \underline{291} = \underline{673}$

Bar Model: 

H	T	O
9	8	4
-	2	9
6	9	3

Think Aloud

This see-saw has more weight on one side and less on the other. Can you move the kids around so that there is the same weight on each side? The numbers written on the T-shirts tell you how much each kid weighs.

Answer: *Answer may vary.*



Concrete Stage

Use 'Place Value Counters', and form your own subtraction sentences to represent the given properties.

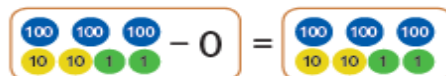
- | | |
|------------------------------------|-----------------------------|
| a Identity property of subtraction | $90 - 0 = 90$ |
| b Zero property of subtraction | $90 - 90 = 0$ |
| c Commutative property of addition | $8 + 9 = 9 + 8 = 17$ |
| d Associative property of addition | $(8 + 9) + 7 = 8 + (9 + 7)$ |

Pictorial Stage

Draw counters to represent the addition and subtraction properties you have learnt. One has been done for you.

Identity property of subtraction

Answer: *Answer may vary.*



Abstract Stage

1 Fill in the boxes, and write the name of the property.

a $32 + 17 = 17 + \boxed{32}$ Commutative property of addition

b $30 - \boxed{0} = 30$ identity property of subtraction

c $986 + \boxed{0} = 986$ Identity zero property of addition

2 Answer the following questions.

a In an aquarium, Ria saw 1000 varieties of fishes. She says adding 0 variety to it, the aquarium will have 999 varieties of fishes. Do you agree? Explain.

Answer: No

b Manik is watching a 3D film on Iceland. He says the number of mammoths is 878 and the Icelandic horse is 476. To find the total number of the animals he could add it either ways. Is he right? Explain.


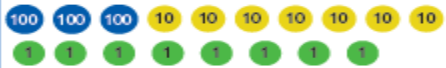



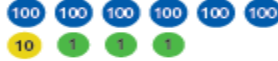
Answer: Yes

c Jane saw 50 seats in a bus. It just has one empty seat. She says there are 249 people travelling in the bus. Is she right? Explain your answer.

Answer: No

Concrete Stage

1 Use 'Place Value Counters' to represent the estimated values and then verify using the actual number of counters for the given numbers.

Numbers	Counters used for the estimated numbers	Counters used for the actual numbers
a 378		
b 421		
c 613		

2 Use 'Number Line', and round off the given numbers to the nearest 10s and 100s.

Numbers	Nearest 10s	Nearest 100s
a 276	280	300
b 821	820	800
c 915	920	900

Pictorial Stage

Complete the addition sentences by matching with their estimated sums.

a	$983 + 352$		
b	$793 + 219$		
c	$692 + 418$		

Abstract Stage

Solve the following questions.

- a 456 girls and 569 boys have registered for the art exhibition. Estimate the total number of boys and girls.

456 rounded off to the nearest hundreds is **500**

569 rounded off to the nearest hundreds is **600**

$$500 + 600 = 1100$$

- b The number of people who visited a museum is 879 and a 3D theatre is 756. What is the approximate difference between the number of people visiting the museum and the 3D theatre? Estimate by rounding off the numbers to the nearest tens.

879 rounded to the nearest tens is **880**.

756 rounded to the nearest tens is **760**.

$$880 - 760 = 120$$

Concrete Stage

Use 'Dienes Blocks', and your own strategy to solve the following sums.

a $84 + 68 = 152$

b $176 + 82 = 258$

c $875 - 125 = 750$

d $662 - 354 = 308$

Pictorial Stage

Look at the counter representations. Cross out (x) the counters or add them to solve these number sentences mentally.

a $650 - 40 = 610$

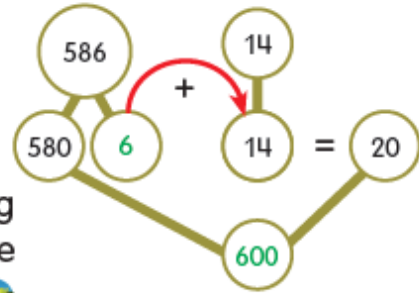
b $620 + 60 = 680$



Abstract Stage

Solve the following questions.

- a Help Juhi to fill in the numbers in the number bond for adding 586 and 14 mentally.
- b Sumit is calculating the number of people going in and out the zoo. Help him to calculate the answers mentally.



i. $783 - 13 = 770$

ii. $765 - 35 = 730$

iii. $852 - 52 = 800$



Linking Chain

EVS



I would like to visit a national park.

Great idea! Will it be larger than a zoo?



Name	State	Area (in square km)
Anamudi Shola National Park	Kerala	8
Anshi National Park	Karnataka	471
Balpakram National Park	Meghalaya	220
Bandhavgarh National Park	Madhya Pradesh	446
Omkareshwar National Park	Madhya Pradesh	651
Bandipur National Park	Karnataka	874

Based on the table given above answer the following questions.

- a Bandipur National Park is the largest national park.
- b The total area covered by Balpakaram National Park and Bandhavgarh National Park is 666 square km.
- c Anshi National Park is 251 square km larger than Balpakaram National Park.

Blooming Questions

1 Find the estimated sums and the actual sums of the following.

a By rounding off to the nearest tens.

i. $33 + 67$

$30 + 70 = 100$

ii. $64 + 27$

$60 + 30 = 90$

iii. $38 + 59$

$40 + 60 = 100$

b By rounding off to the nearest hundreds.

i. $512 + 177$

$500 + 200 = 700$

ii. $371 + 426$

$400 + 400 = 800$

iii. $239 + 759$

$200 + 800 = 1000$

2 Find the estimated differences and actual differences of the following numbers.

a By rounding off the nearest tens.

i. $65 - 42$

$70 - 40 = 30$

ii. $83 - 58$

$80 - 60 = 20$

iii. $52 - 49$

$50 - 50 = 0$

b By rounding off to the nearest hundreds.

i. $518 - 201$

$500 - 200 = 300$

ii. $620 - 497$

$600 - 500 = 100$

iii. $882 - 702$

$900 - 700 = 200$

3 Read out the story sums, write the information and draw a bar model to solve each problem. One has been done for you.

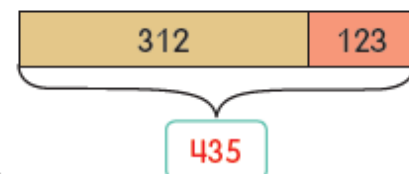
a Sameer walked 312 steps. Meera walked 123 more steps than Sameer. Find the number of steps walked by Meera.

Sameer walked = 312 steps

Meera walked 123 steps more than Sameer.

Operation: addition

Meera walked = 312 steps + 123 steps = 435 steps



b There were 983 visitors at a zoo. 340 of them were adults. How many children were there?

Answer: $983 - 340 = 643$

c In a library, Class 3A donated 400 books and Class 3B donated 360 books. If the students of all the three sections of class 3 had decided to donate 1000 books, how many books should Class 3C donate?

Answer: $1000 - (400 + 360) = 1000 - 760 = 240$

d In your colony, there are 335 people from the South India, 1345 people from the North and East India and 645 people from the West India. How many people are staying in your colony?

Answer: $335 + 1345 + 645 = 2325$

e A monument in India had 408 visitors on Monday and 310 visitors visited on Tuesday. Find the total number of visitors.

Answer: $408 + 310 = 718$

4 Fill the missing digits in the boxes.

a

H	T	O
4	3	6
+ 1	8	2
6	1	8

b

Th	H	T	O
6	4	7	5
- 4	1	4	3
2	3	3	2

c

Th	H	T	O
8	10	10	10
9	0	0	0
- 6	1	9	4
2	8	0	6

5 Identify the mistakes in the given sums. Rectify and solve correctly.

a

$4302 + 123 = 4425$

Th	H	T	O
4	3	0	2
+ 1	2	3	3
5	5	3	5

4	3	0	2
+ 1	2	3	3
4	4	2	5

b

$6120 - 4512 = 1608$

Th	H	T	O
6	1	2	0
- 4	5	1	2
2	4	1	2

6	1	2	0
- 4	5	1	2
1	6	0	8

6 Solve the following vertically in your notebook.

a $779 - 198 = 581$

b $6934 - 720 = 6214$

c $4501 + 345 = 4846$

d $872 + 43 = 915$

e $999 - 100 = 899$

f $1000 - 999 = 1$

7 Create five story problems involving addition or subtraction. Exchange with a classmate. Solve them at home and discuss the answers in the class the following day.

Answer: Answer may vary.

Mental Maths

Solve the following mentally.

a $4500 + 100 = 4600$

b $3860 + 1000 = 4860$

c $5461 + 201 = 5662$

d $8216 - 210 = 8006$

e $4516 - 100 = 4416$

f $4401 + 9 = 4410$

g $6060 - 1060 = 5000$

h $2021 + 2021 = 4042$

i $6051 - 6051 = 0$

j $378 + 1 = 379$

POST ACTIVITY- Write the properties of addition and subtraction.

Sub teacher

Hod

Cordinator

Principal