Chapter- 4 SUBTRACTION

STUDY NOTES

This lesson will help you to know about :

- Properties of subtraction
- Subtraction of Two 2-digit numbers
- Subtraction of 1-digit and 2-digit Numbers from a 3-digit Number(without borrowing)
- Subtraction of Two 3-digit Numbers (without borrowing)
- Subtraction by Regrouping or Borrowing
- Word Problems

SUBTRACTION: Subtraction means taking away a number from another number or to take away from a group of objects or a number of things. When we subtract, the number of things in the group reduce or become less.

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Symbol of subtraction is minus;

Answer of subtraction is - DIFFERENCE

1. Properties of subtraction:

a) The order of numbers is important in subtraction.Usually, only a smaller number is subtracted from a bigger number.

EXAMPLE:

8 - 3 = 5

 $3 - \frac{8}{2} =$ Not possible at our level.

b) When we subtract 0 (zero) from a number, the difference is the number itself.

Example:

24 - 0 = 24, 64-0=64 36 - 0 = 36, 100 - 0 = 100

C) When we subtract 1 from a number, the difference is the previous (Just before) number, also called the predecessor of the number.

Example:

23 - 1 = 22 (22 is the predecessor of 23)

75 - 1 = 74 (74 is the predecessor of 75)

2)Subtraction of Two 2-digit Numbers;

Example: subtract 34 from 79

- 3 4



9 ones - 4 ones = 5 ones <u>4 5</u>

Step 2: Subtract the tens and write the difference

Under tens column.

7 tens - 3 tens = 4 tens

Ans. 45

3. <u>Subtraction of 1-digit and 2-digit numbers from a 3-digit number (Without Borrowing)</u>

Example 1 : Subtract 5 from 127

нто	Method:	
127	Step-1 : Subtract the ones and write the difference below	
- 5	the ones column.	
<u>1 2 2</u>	<mark>7 ones - 5 ones = 2 ones</mark>	
	 Step 2 : As there are no digits to be subtracted from the tens and the hundreds columns. So write the digits below in their respective places. Or 2 - 0 = 2 (Write in tens column) 1 - 0 = 1 (Write in hundreds column) 	
Ans - 122		
Example 2 : Subtract 23 from 695		
H T O Meth	Changing vour Tomorrow	
695 Step	1 - Subtract the ones and write the difference under the ones'	
<u>- 2 3</u> colu	umn.	
<u>672</u> 50n	<mark>es - 3 ones = 2 ones</mark> .	
Step	2: Subtract the tens and write the difference under the tens column.	
<mark>9 te</mark> i	ns - 2 tens = 7 tens.	
<mark>Step</mark> the c	<mark>3 :</mark> As there is no digit to be subtracted from the hundreds' column. Write ligit below as it is.	
Ans- 672		

4.Subtraction of Two 3-digit Numbers (without borrowing) :



Example 1 : Subtract 35 from 60

т	0	Method :
5	10	Step-1: Since 0<5, to subtract 5 from 0, we will borrow 1 ten
6	0	from the tens column.
- <u>3</u>	5	Now we have 5 tens and 10 ones instead of 6 tens and 0
2	5	ones.
		Step-2 : Subtract the ones
Ans <mark>Exam</mark>	- 25 ple 2 : S	10 ones - 5 ones = 5 ones Step-3 : Subtract the tens. 5 tens - 3 tens = 2 tens ubtract 7 from 326
н	ED	UCATIONAL GROUP
	1 16	Step-1: $7 > 6$, we cannot subtract 7 from 6 in ones column.
3	2 6	So we will borrow 1 ten from the tens column.
	7	Instead of 2 tens and 6 ones, now we have 1 ten and 16 ones.
3	<u>19</u>	<mark>16 ones - 7 ones = 9 ones</mark> .
		Step-2: As there are no digits to be subtracted from the
		tens and hundreds columns, write the digits below in
		their respective places.
Ans :	319	

Example 3 : Subtract 17 from 324 Method: НТО Step-1: As 4 < 7, so we will borrow 1 ten from the tens 1 14 24 3 column. Now 2 tens will become 1 ten and 4 ones will - 17 become 14 ones. <u>3 0 7</u> Step-2: 14 ones - 7 ones = 7 ones (write in ones column) Step-3: 1 ten - 1 ten = 0 tens Step-4: As there is no digit to be to be subtracted in the hundreds column, we will write the same digit hundreds column. Ans: 307 B.Regrouping Hundreds into Hundreds and Tens **EXPLANATION:** When the digit at the tens place is less than the digit to be subtracted , we borrow one hundred from the hundreds place and bring it to the tens place. Then we add the tens to the existing tens for

subtraction.

Example 1 :- Subtract 9 from 302

Solution:

НТО	Method:-
9	Step-1:- As 2 < 9,we will borrow 1 ten from tens column.
2 ÌQ 12	Step-2 :- Since there is 0 tens in the tens column , we
3. 0 2	will first borrow 1 hundred from the hundreds column.
- 9	Now 3 hundred and 0 tens become 2 hundreds and
<u>293</u>	10 tens.
	Step 3:- Now that there are 10 tens in the tens column, we will borrow. Now we have 9 tens and 12 one. Step 4:- 12 ones - 9 ones = 3 ones. Step 5 :- As there is nothing to be subtracted from the tens and hundreds columns. Write the digit in the respective places.
Ans :- 293 7.Word Problems :	JCATIONAL GROUP
EXPLANATION:-	Changing your Tomorrow

Read the question carefully. Understand clearly what is given and what is to be found. Write the steps properly and then solve the problem.

Example:-

In an orchard, there were 428 apple trees. Of these 139 were destroyed in a storm. How many trees are left now?

Solution:

Total number of apple trees in the orchard = 428 Number of trees destroyed in the storm = 139

$$\begin{array}{r} 3 & 11 & 18 \\ 4 & 2 & 8 \\ - & 1 & 3 & 9 \\ \end{array}$$

Number of trees left now = $\begin{array}{r} 2 & 8 & 9 \\ \end{array}$

Ans:- So, 289 apple trees are left now in the orchard.

