

SESSION : 8

CLASS : 3

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 4

CHAPTER NAME : SUBTRACTION

SUBTOPIC : RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

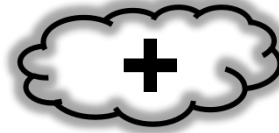
Children will:

- * Acquire the knowledge that Addition and subtraction is related**
- * Know that every addition statement has 2 subtraction facts**
- * Know subtraction is an inverse process of addition**
- * Be able to find out the missing digit implementing the facts.**

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

What do addition mean?
What is the symbol of addition?



Put into

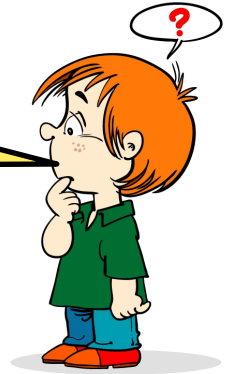


SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION



What do subtraction mean?
What is the symbol of subtraction?



Take away

—

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

Let us learn through an example

			8	1st row
+	2	0	2	2nd row
<hr/>				
	8		0	3rd row

STEP 1: See the ones column

$$\underline{\quad} + 2 = 10$$

If the 1st row is blank -

We subtract the 2nd row number from the 3rd row number.

$$\text{So, } 10 - 2 = 8 \quad (8 + 2 = 10).$$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

		1				
		8	8	1st row	STEP 2: See the tens column	
	9	8	8			
+	2	0	2	2nd row	If the 2nd row is blank -	
	2	2	2			
<hr/>						
	8		1	3rd row	$8 + 1 + \underline{\quad} = 11$	
	8		1			
			0			

$(8 + 1) + \underline{\quad} = 11$ OR $9 + \underline{\quad} = 11$

So, $11 - 9 = 2.$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

	1			
	9	8	8	1st row
+	2	0	2	2nd row
<hr/>				
8	0	1	0	3rd row

A red oval highlights the numbers 1, 9, 0, and 0 in the first, second, and third rows of the addition problem.

STEP 3: See the hundreds column

If the 3rd row is blank -

So, $9 + 1 + 0 = 10$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

	1				
	5	9	8	8	1st row
+	2	0	2	2	2nd row
<hr/>					
	8	0	1	0	3rd row

STEP 4: See the thousands column

If the 1st row is blank -

$1 + \underline{\quad} + 2 = 8$

So, $1 + 2 = 3$, $8 - 3 = 5$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

Let us see another example

	9		8	8	1st row
-	5	6		2	2nd row
<hr/>					
		1	1	6	3rd row

STEP 1: See the ones column

$$\underline{\quad} - 2 = 6$$

If the 1st row is blank -

We add the 2nd row number to the 3rd row number.

$$\text{So, } 6 + 2 = 8.$$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

	9		8	8	1st row	STEP 2: See the tens column	
-	5	6	7	2	2nd row		If the 2nd row is blank -
		1	1	6	3rd row		$8 - \underline{\quad} = 1$

A red oval highlights the 8 in the tens column of the 1st row and the 1 in the tens column of the 3rd row.

We subtract the 3rd row number from the 1st row number.

So, $8 - 1 = 7$.

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

	9	7	8	8	1st row	STEP 3: See the tens column
-	5	6	7	2	2nd row	If the 1st row is blank -
<hr/>						
		1	1	6	3rd row	_____ - 6 = 1

We add the 2nd row number to the 3rd row number.

So, $1 + 6 = 7$.

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

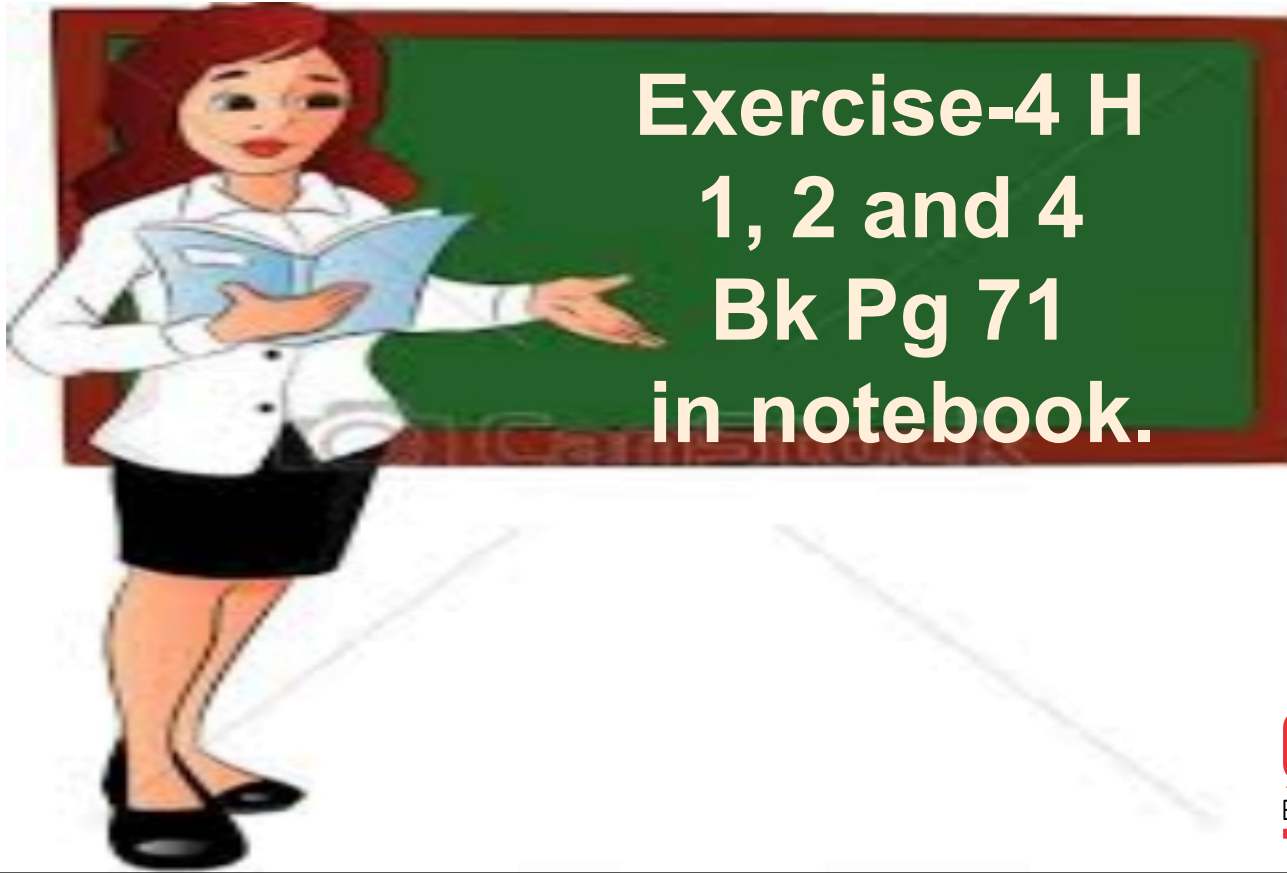
	9	7	8	8	1st row	STEP 4: See the tens column	
-	5	6	7	2	2nd row		If the 3rd row is blank -
	4	1	1	6	3rd row		$9 - 5 = 4$

We subtract the 2nd row number from the 1st row number.

So, $9 - 5 = 4$.

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION



SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

1. Fill the appropriate digits in the boxes.

	Th	H	T	O
	5	8	6	9
-	2	4	3	2
<hr/>				
	3	4	3	7

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 5 \quad 2 \quad 0 \\ + 3 \quad 4 \quad 2 \quad 3 \\ \hline 4 \quad 9 \quad 4 \quad 3 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 6 \quad 8 \quad 6 \quad 7 \\ - 3 \quad 6 \quad 2 \quad 7 \\ \hline 3 \quad 2 \quad 4 \quad 0 \end{array}$$

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION

2. What should be added to 4 5 9 to get 9 1 1.

$$\begin{array}{r} \\ \\ \\ \hline \end{array}$$

8 10 11

~~9~~ ~~1~~ ~~1~~

- 4 5 9

4 5 2

$$\begin{array}{r} \\ \\ \\ \hline \end{array}$$

1 1

4 5 9

+ 4 5 2

9 1 1

∴ 4 5 2 should be added to 4 5 9 to get 9 1 1.

SUBTRACTION

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4. The sum of two numbers is 1989. If one of them is 873, find the other number.

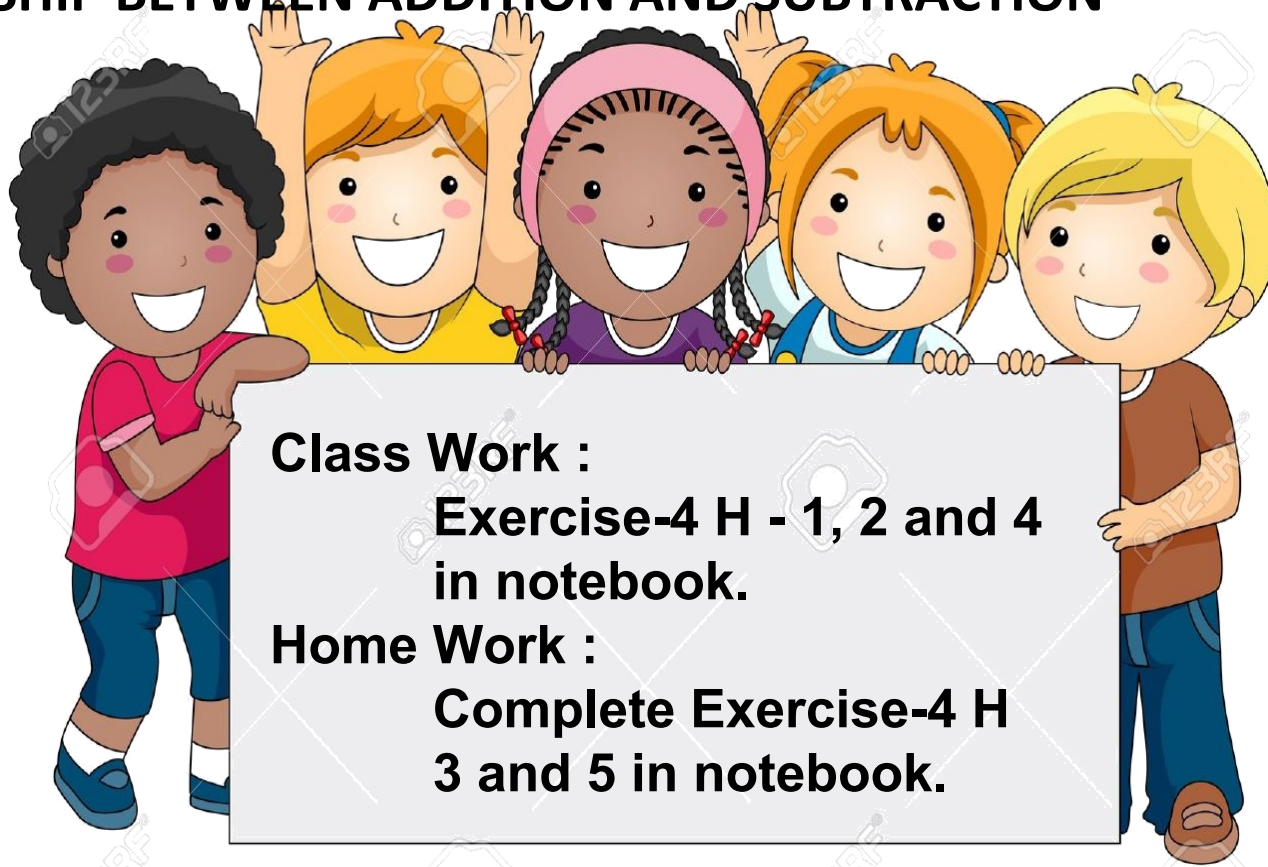
$$\begin{array}{r} 1989 \\ - 873 \\ \hline 1116 \end{array}$$

$$\begin{array}{r} 1116 \\ + 873 \\ \hline 1989 \end{array}$$

∴ The other number is 1116.

SUBTRACTION

RELATIONSHIP BETWEEN ADDITION AND SUBTRACTION



Class Work :

**Exercise-4 H - 1, 2 and 4
in notebook.**

Home Work :

**Complete Exercise-4 H
3 and 5 in notebook.**

LEARNING OUTCOME:

Children are confident of acquiring the knowledge that Addition and subtraction is related, know that every addition statement has 2 subtraction facts, know subtraction is an inverse process of addition and be able to find out the missing digit implementing the facts.



THANKING YOU
ODM EDUCATIONAL GROUP