

GIRLS' HIGH SCHOOL & COLLEGE, PRAYAGRAJ

WORKSHEET NO. 5

SESSION: 2020-21

CLASS -3; SECTION - A TO F

SUBJECT - MATHEMATICS

CHAPTER- ADDITION

Parents are expected to ensure that the child reads, understands the concept and then solves the questions given in the exercises.

- 1) Addition is the term used to describe adding two or more numbers together.
- 2) The plus sign (+) is used to denote an addition. For example- $2+2=4$.
- 3) The plus sign (+) can be used multiple times as required. For example- $2+2+2+2+2$.
- 4) For longer list of numbers it is easier to write the numbers in columns and then add.
- 5) The numbers that we add are called addends. The answer of addition is called sum.

TOPIC I- ADDITION OF THREE DIGIT NUMBERS

We add 3- digit numbers by arranging the digits in columns of Hundreds, Tens and Ones. Now, we add the numbers in each column separately.

Example: 1 - Addition of three digit numbers without carrying.

	H	T	O
Add Ones- $8 + 1 = 9$.			2 1 8
Add Tens- $1 + 7 = 8$.			+ <u>2 7 1</u>
Add Hundreds- $2 + 2 = 4$.			<u>4 8 9</u>
Sum = 489.			

Example : 2 - Addition of three digit numbers with carrying.

Step:1- Add digits in Ones column.

$$8 + 7 = 15.$$

We write 5 in Ones column and carry over 1 to Tens column.

Step:2- Add digits in Tens column and the number carried over from Ones column.

$$5 + 6 + 1 = 12.$$

We write 2 in Tens column and carry over 1 to Hundreds column.

	H	T	O
	17	15	8
	+1	6	7
	9	2	5

Step:3 - Add digits in Hundreds column and the number carried over from Tens column.

$$1 + 7 + 1 = 9.$$

We write 9 in Hundreds column.

$$\text{Sum} = 925.$$

EXERCISE:1

I. Add the Following- (Without carrying.)

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

$$\begin{array}{r} \text{b) } \text{H} \quad \text{T} \quad \text{O} \\ 8 \quad 3 \quad 5 \\ + 1 \quad 4 \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 9 \quad 8 \\ + 2 \quad 0 \quad 1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 2 \quad 5 \\ + 2 \quad 3 \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } \text{H} \quad \text{T} \quad \text{O} \\ 8 \quad 7 \quad 0 \\ + 1 \quad 2 \quad 9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) } \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 5 \quad 9 \\ + 8 \quad 2 \quad 0 \\ \hline \\ \hline \end{array}$$

II. Add the following- (With carrying.)

$$\begin{array}{r} \text{a) } \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 5 \\ + 3 \quad 7 \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 2 \quad 5 \\ + 2 \quad 8 \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } \text{H} \quad \text{T} \quad \text{O} \\ 6 \quad 9 \quad 5 \\ + 2 \quad 3 \quad 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) H T O} \\ 4 \quad 6 \quad 9 \\ + 3 \quad 7 \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) H T O} \\ 3 \quad 4 \quad 9 \\ + 2 \quad 7 \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) H T O} \\ 5 \quad 7 \quad 3 \\ + 2 \quad 8 \quad 9 \\ \hline \\ \hline \end{array}$$

TOPIC II- ADDITION OF 4-DIGIT NUMBERS

We add 4- digit numbers by arranging the digits in columns of Thousands, Hundreds, Tens and Ones. Now, we add the numbers in each column separately.

Example : 1 - Addition of four digit numbers without carrying.

Add Ones- $0 + 1 = 1$.

Add Tens- $0 + 7 = 7$.

Add Hundreds- $5 + 2 = 7$.

Add Thousands- $6 + 1 = 7$.

Sum = 7771.

$$\begin{array}{r} \text{Th H T O} \\ 6 \quad 5 \quad 0 \quad 0 \\ + \underline{1 \quad 2 \quad 7 \quad 1} \\ \underline{7 \quad 7 \quad 7 \quad 1} \end{array}$$

Example : 2 - Addition of four digit numbers with carrying.

Step:1- Add digits in Ones column.

$$8 + 7 = 15.$$

We write 5 in Ones column and carry over 1 to Tens column.

Th	H	T	O
14	18	19	8
+ 4	9	6	7
<hr/>			
9	8	6	5
<hr/>			

Step:2- Add digits in Tens column

and the number carried over from Ones column.

$$9 + 6 + 1 = 16.$$

We write 6 in Tens column and carry over 1 to Hundreds column.

Step:3 - Add digits in Hundreds column and the number carried over from Tens column.

$$8 + 9 + 1 = 18.$$

We write 8 in Hundreds column and carry over 1 to Thousands column.

Step:4 - Add digits in Thousands column and the number carried over from Hundreds column

$$4 + 4 + 1 = 9.$$

We write 9 in Thousands column.

$$\text{Sum} = 9865.$$

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EXERCISE: 2

I. Add the Following- (Without carrying.)

a)

Th	H	T	O
2	2	3	6
+7	4	5	2

b)

Th	H	T	O
6	3	4	1
+ 2	5	5	8

c)

Th	H	T	O
3	0	0	5
+ 5	8	9	0

d)

Th	H	T	O
2	3	5	0
+ 6	5	2	4
+ 1	1	2	3

e)

Th	H	T	O
4	6	4	1
+ 3	1	5	6
+ 2	0	0	0

f)

Th	H	T	O
3	0	2	5
+3	1	7	2
+3	0	0	0

II. Add the following- (With carrying.)

a)

Th	H	T	O
1	2	7	3
+ 7	8	3	9

b)

Th	H	T	O
4	6	2	1
+ 3	4	4	9

c)

Th	H	T	O
6	2	2	9
+ 3	5	7	6

d) Th H T O 3 4 2 0 + 5 3 5 9 + 1 1 2 7 <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>	e) Th H T O 2 3 9 5 + 4 4 5 6 + 3 0 7 4 <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>	f) Th H T O 7 0 0 9 + 1 5 6 3 + 1 3 7 4 <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>
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TOPIC III - PROPERTIES OF ADDITION

Property 1: We can change the order of two numbers when finding their sum.

For example: $2105 + 1038 = \mathbf{3143}$.

or

$1038 + 2105 = \mathbf{3143}$.

Property 2: We can change the grouping of numbers when finding their sum.

For example: Let us add 2167, 1384 & 3295.

$\mathbf{(2167 + 1384)} + 3295$

$3551 + 3295 = \mathbf{6846}$.

or

$2167 + \mathbf{(1384 + 3295)}$

$2167 + 4679 = \mathbf{6846}$.

Property 3: When zero is added to a number or a number is added to zero then the sum is the number itself.

For example: $0 + 1245 = 1245$.

or

$$1245 + 0 = 1245.$$

EXERCISE: 3

I.Fill in the blanks-

a. $2132 + 5248 = \underline{\hspace{2cm}} + 2132$.

b. $1352 + \underline{\hspace{2cm}} = 1580 + 1352$.

c. $(5252 + 1237) + 7041 = 5252 + (1237 + \underline{\hspace{2cm}})$.

d. $(4875 + 8628) + \underline{\hspace{2cm}} = 4875 + (8628 + 2147)$.

e. $1325 + 0 = \underline{\hspace{2cm}}$.

f. $\underline{\hspace{2cm}} + 0 = 3959$.

TOPIC IV- ADDITION STORIES (PROBLEM SUMS)

In a basket, there are 51 apples and 37 mangoes. How many fruits are there in the basket?

Method to be followed:

1st step- We have to carefully read the story and then find out from the story the answers to the following questions:

Q.1- How many apples are there in the basket?

A.1-There are 51 apples in the basket.

Q.2- How many mangoes are there in the basket?

A.2- There are 37 mangoes in the basket.

Q.3- How many fruits are there in all in the basket?

A.3- Total number of fruits= number of apples
+ number of mangoes.

2nd Step- Write the answers to the above questions in statement form and then solve the problem.

- Number of apples in the basket = 51.
- Number of mangoes in the basket= 37.

$$\begin{array}{r} 51 \\ +37 \\ \hline 88 \end{array}$$

- Total Number of fruits in the basket=88.

EXERCISE: 4

I. Solve the following word problems-

- 1- Mohit collected stamps. He kept 454 stamps in a box. He has 336 more stamps in a book. How many stamps does he have in all?
- 2- Population of a village A is 4487 and population of village B is 3112. What is the total population of both the villages?
- 3- There are 2350 boys and 2220 girls studying in a school. How many students are studying in the school?
- 4- 1462 children were attending a camp. 1231 more children joined them. How many children are there in the camp now?
- 5- In an election, Mr. Roy got 2075 votes and Mr. Singh got 3562 votes. 1209 voters did not come for voting. How many voters were there?

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