

Girls' High School and College, Prayagraj

Session-(2020-2021)

Worksheet No. 4

Class- 5 A to 5 F

Chapter 2 - Addition

Topic- Properties of addition

INSTRUCTIONS TO THE PARENTS

Parents are expected to ensure that the child reads and understands the properties of addition and is able to do the exercises.

Notes-:

Addition- An **addition** sentence is a mathematical expression that shows two or more values added together and their sum. The numbers that are added are called addends and the answer to **addition** is called the sum.

Properties of Addition

1.Changing the order of addends does not change the sum.

When two numbers are added, the sum remains the same even if we change the order of numbers. It can be represented as;

- **$A + B = B + A$ Example:**

Let us take $A = 1267890$ and $B = 567832$

$$**1267890+567832= 567832+1267890**$$

$$**18,35,722=18,35,722**$$

In the above example, you can see, when we add the two numbers, 1267890 and 567832 and we interchange the two numbers, the results remain the same as 18,35,722.

2.Changing the grouping of addends does not change the sum.

When we add three numbers, the association of numbers in a different pattern does not change the result. We can represent this property as;

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- **$A+(B+C) = (A+B)+C$**

Example:

$$23,34,567+(45,67,890+12,90,787)=(23,34,567+45,67,890)+12,90,787$$

$$\bigcirc \quad 23,34,567+58,58,677 = 69,02,457+12,90,787$$

$$\bigcirc \quad 81,93,244 = 81,93,244$$

3.The sum of 000 and any number is that number.

For every number, there is a unique real number, which when added to the number gives the number itself. Zero is the unique real number, which is added to the number to generate the number itself.

• $A + 0 = A$ or $0 + A = A$ Example:

$$34,56,777 + 0 = 34,56,777$$

Or

$$0 + 34,56,777 = 34,56,777$$

† Addition of Large Numbers

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To add large numbers, arrange the digits in columns according to the place value of digits. Then keep adding digits starting from ones place to the largest place. Let us have a look at some examples.

0 - Ones

T - Tens

H - Hundreds

Th - Thousands

TTh - Ten Thousands

L- Lakhs

TL - Ten Lakhs

C - Crores

TC - Ten Crores

Examples -: Add 5,34,56,341 and 2,26,07,265.

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Solution. Arrange the numbers in column and add.

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

So, the answer is 7,60,63,606.

Exercises-:

1.Do as directed 1.State

true or false

a) $6777 + 0 = 6778$

b) We can change the order of addends.

c) The sum is always greater than each of addends

2.Fill in the blanks using properties of addition:

a) _____ + 4132 = 4132

b) $25437 + 0 =$ _____

c) $23114 + (13445 + 16671) = ($ _____ $+ 13445) +$
16671

d) $11236 + 19632 =$ _____ $+ 11236$

2.Arrange in columns and add:

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1. 2,92,342 ; 14,54,651 **and** 46,81,50.

2. 4,02,36,754 ; 3,21,33,046 **and** 2,95,17,354.

3. 78,90,800 ; 5,67,89,455 **and** 2,34,44,337

4. 1,22,45,666 ; 1,25,69,900 **and** 3,44,56,222

5. 34,54,567 ; 34,99,999 **and** 12,88,544

3. Problem sums

1. In an examination, 75,236 students passed and 14,892 students failed. Find how many students appeared for the examination.
2. There are 3,786 men, 3,672 women and 1,508 children in a village. Find the total population of the village.
3. A toy factory manufactured 52,253 toys in January, 50,375 toys in February and 608,368 toys in March. How many toys were manufactured in the above mentioned months in total?
4. There are 2,37,536 bags of wheat, 1,35,380 bags of rice and 2,25,240 bags of gram in a store. Find the total number of bags in the store.

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