

Tender Heart High School, Chandigarh
Class - II

Subject - Mathematics

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In this assignment we will learn some addition facts and do Two digits, three digits addition with carry over

ADDITION

The sign (+) indicates addition. It is called the 'plus' sign.

The addition fact $3+2=5$ is read as three plus two is equal to five.

When we add two numbers, the answer is called the sum.

$$3 + 2 = 5$$

↓ ↗
Addends Sum

When we add 0 to a number, the sum is that number itself.

$$1 + 0 = 1$$

$$5 + 0 = 5$$

$$3 + 0 = 3$$

★ By adding 1 to a number, we get the next number.

i.e $8 + 1 = 9$

$6 + 1 = 7$

★ Two or three numbers can be added in any order, the sum remains same

$$\left[\begin{array}{l} 5 + 2 = 7 \\ 2 + 5 = 7 \end{array} \right]$$

$(6 + 2) + 1 = 9 \Rightarrow 8 + 1 = 9$

or $6 + (2 + 1) = 9 \Rightarrow 6 + 3 = 9$

So, children let us do an exercise on this
Exercise - 1

$5 + 0 =$	$8 + 1 =$	$37 + 1 =$
$8 + 0 =$	$15 + 1 =$	$45 + 1 =$
$13 + 0 =$	$20 + 1 =$	$29 + 1 =$

Two or three numbers can be added in any order, the sum remains the same.

$7 + 3 = 10$ or

$3 + 7 = 10$ or

$(5 + 3) + 2 = 10$

$5 + (3 + 2) = 10$ The sum is same.

Now let us do Addition of Two-digit Numbers which we have already done in class - I

Exercise - II

Add by counting forward

$$56 + 4 = 60$$

$$23 + 5 =$$

$$91 + 4 =$$

$$16 + 8 =$$

$$24 + 5 =$$

$$28 + 7 =$$

$$39 + 2 =$$

$$34 + 3 =$$

$$87 + 5 =$$

$$65 + 3 =$$

H.W

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Addition of Two-Digit Numbers (without carry over)

For example - Add 62 and 23

$$\begin{array}{r} 62 \\ + 23 \\ \hline 85 \end{array}$$

while adding two-digit numbers, we first add the digits in the ones places and then we add the digits in the tens places.

Addition of 2-Digit Numbers with Carry Over

For example - Add 54 and 28

$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 4 \\ + 2 \quad 8 \\ \hline \text{①} 2 \end{array}$$

Step-1: First add the ones

$$4 + 8 = 12 \text{ ones}$$

Write 2 under Ones column and carry 1 Ten to the Tens column.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{①} \quad \quad \\ 5 \quad 4 \\ + 2 \quad 8 \\ \hline 2 \end{array}$$

Step-2 - Next add the Tens

$$5 + 2 + 1 = 8 \text{ Tens}$$

Write 8 under

Tens column

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{①} \quad \quad \\ 5 \quad 4 \\ + 2 \quad 8 \\ \hline 8 \quad 2 \end{array}$$

Exercise - III (Practice sums)

Add the following - Carry over sums

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 2 \quad 5 \\ + 1 \quad 8 \\ \hline \end{array}$$

2.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 3 \quad 4 \\ + 0 \quad 6 \\ \hline \end{array}$$

3.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 7 \quad 3 \\ + 1 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 2 \quad 7 \\ + 1 \quad 5 \\ \hline \end{array}$$

5.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 1 \quad 4 \\ + 1 \quad 7 \\ \hline \end{array}$$

6.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 5 \quad 7 \\ + 2 \quad 8 \\ \hline \end{array}$$

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

8.

$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 4 \quad 6 \\ + 1 \quad 9 \\ \hline \end{array}$$

9.

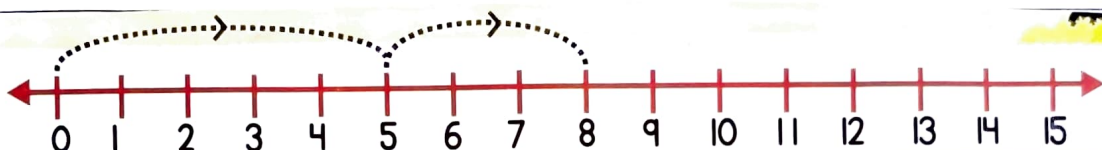
$$\begin{array}{r} \text{T} \quad \text{O} \\ \text{O} \\ 5 \quad 8 \\ + 0 \quad 8 \\ \hline \end{array}$$

Addition on the Number line

To add on the number line, put your finger on the first number and then count forward the given number of times.

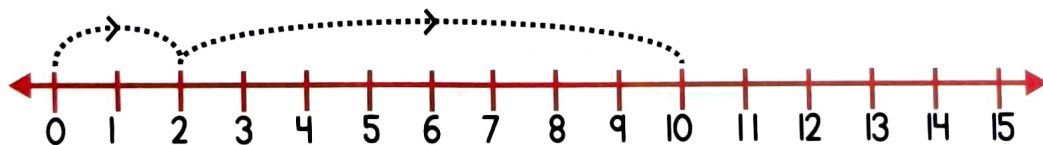
Let us add 5 and 3 with the help of a number line.

On the number line, we put our finger on 5 and then count forward 3 times.

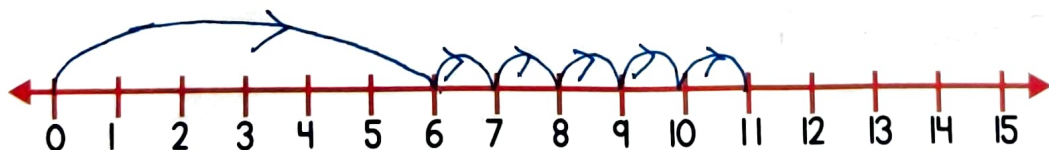


$$5 + 3 = 8$$

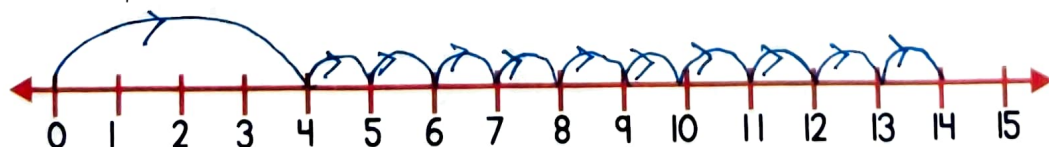
Add the following on the number line.



$$2 + 8 = 10$$



$$6 + 5 = 11$$



$$4 + 10 = 14$$

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Addition of 3-Digit Numbers -
(Without carry over)
Let us add 532 and 463

	H	T	O
	5	3	2
+	4	6	3
	9	9	5

Next add the tens.
Then add the hundreds.

Exercise - 1
Add the following -

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

2.	H	T	O
	5	0	6
	+	1	8
	6	8	9

3.	H	T	O
	3	1	2
	+	3	6
	6	7	5

H	T	O
1	3	1
+	7	1
8	4	9

5.	H	T	O
	6	2	8
	+	2	4
	8	6	9

6.	H	T	O
	7	3	0
	+	2	6
	9	9	3

7.	H	T	O
	2	4	2
	+	5	3
	7	7	8

8.	H	T	O
	5	7	7
	+	1	2
	6	9	9

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