

Chapter- 6

Addition

STUDY NOTES

- Adding by counting forward
- Adding on a number line
- Addition of a 1-digit and a 2-digit number (without carrying over)
- Addition of 2-digit numbers (without carrying over)
- Addition of Three, 2-digit numbers (without carrying over)
- Addition of a 1-digit number and a 2-digit number (with carryover)
- Addition of Two 2-digit numbers (with carryover)
- Addition of Two 3-digit numbers
- Word problems.

Add by counting forward: To add we have to count forward.


Example 1:

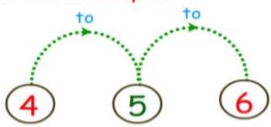
Addition, using forward counting

Let us add 4 and 2.

$$4 + 2 = ?$$

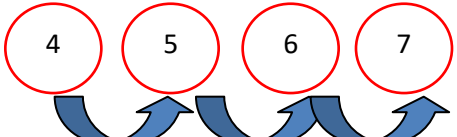
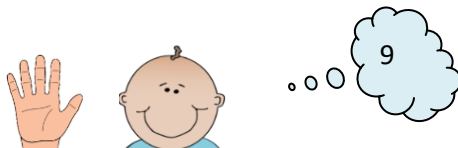
Observe an ant at step 4.
It moves 2 steps forward.
It moves from step 4 to step 5,
then it moves to step 6.



That is, 

Example 2:

$4 + 3 = 7$

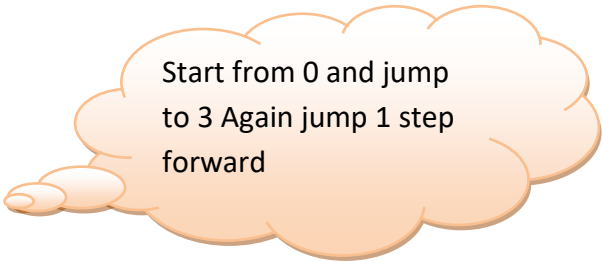
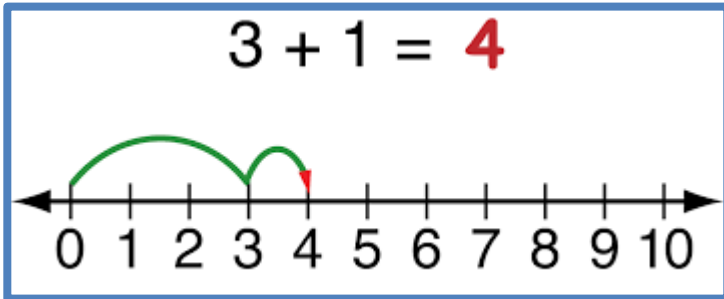



Example 3: Keeping bigger numbers in mind and count fingers for a smaller number.

$$5 + 9 = 14$$

Addition on number line:

Example: Add 3 and 1 = 4



Addition of a 1-digit number and a 2-digit number. (Without carrying over):

Example: Add 45 and 3

	T	O
	4	5
+		3
	4	8

Step 1: Add Ones place digits and write the answer in Ones column.

Step 2: As there nothing to add in tens column, bring down 4 as it is.

4 tens and 8 ones make 48

Addition of Two 2-digit numbers. (Without carrying over):

Example: Add 67 and 23

Step 1: Add Ones place digits and write the answer in Ones column.

Step 2: Now add tens digits and write the answer in tens column.

	T	O
	6	7
+	2	2
	8	9

8 tens and 9 ones

Addition of Three 2-digit numbers. (Without carrying over):

Example: Add 25, 12 and 10

	T	O
	2	5
+	1	2
	1	0
	4	7

Step 1: Add Ones place digits and write the answer in Ones column.

Step 2: Now add tens digits and write the answer in tens column.

4 tens and 7 ones make 47

Addition of a 1-digit number and a 2-digit number. (With carryover):

Example: Add 57 and 6

	T	O
	5	7
+		6
	6	13

Step 1: Add Ones place digits and write the answer in Ones column.
7 ones + 6 ones = 13 ones = 1 ten and 3 ones.

Step 2: Now carry 1 ten from ones place to tens place and keep 3 ones in ones place.

Step 3: Now add tens column digit. 1 ten + 5 tens = 6 tens

6 tens and 3 ones make 63

Addition of Two 2-digit numbers. (With carrying over):

Example: Add 34 and 58

	T	O
	1	
	3	4
+	5	8
	9	12

Step 1: Add Ones place digits and write the answer in Ones column.
 $4 \text{ ones} + 8 \text{ ones} = 12 \text{ ones} = 1 \text{ ten and } 2 \text{ ones.}$

Step 2: Now carry 1 ten from ones place to tens place and keep 2 ones in ones place.

Step 3: Now add tens column digits. $1 \text{ ten} + 3 \text{ tens} + 5 \text{ tens} = 9 \text{ tens}$

9 tens and 2 ones make 92

Addition of Two 2-digit numbers. (With carry over):

Example: Add 635 and 264

	H	T	O
	6	3	5
+	2	6	4
	8	9	9

Step 1: Add Ones place digits and write the answer in Ones column.
 $5 \text{ ones} + 4 \text{ ones} = 9 \text{ ones}$

Step 2: Now add tens digits and write the answer in tens column.
 $3 \text{ tens} + 6 \text{ tens} = 9 \text{ tens.}$

Step 3: Now add hundreds place digits.

$6 \text{ hundreds} + 2 \text{ hundreds} = 8 \text{ hundreds}$ **Answer 899**

So, the answer is **899**


Word Problems:


Example:

There are 23 birds on a tree and 16 birds on another tree. How many birds are there in all?

Number of birds on one tree	→
Number of birds on another tree	→
Total number of birds	→

T	O
2	3
1	6
3	9





So, there are 39 birds in all

KEY WORDS FOR ADDITION

















MIND MAP

ADDITION

Adding by counting forward

Addition of a 1-digit and a 2-digit number

Addition of 2-digit numbers

Addition of Three, 2-digit numbers

Addition of 2-digit numbers (without carrying over)

Adding on a number line

Addition of a 1-digit number and a 2-digit number

Addition of Two 2-digit numbers

Addition of Two 3-digit numbers

Word problems