

Addition of Two 2-digit Numbers (without carry over)

Example

Add 12 and 15.

	T	O
	1	2
+	1	5
	2	7

Method :

Step 1 : Write the tens digit below tens' column and the ones digit below ones' column.

Step 2 : First, add the ones together and write below ones' column.
 2 ones + 5 ones = 7 ones

Step 3 : Then, add the tens together and write below tens' column.
 1 ten + 1 ten = 2 tens

Ans. 27

Exercise

Add the following.

	T	O
	3	5
+	1	2
	4	7

	T	O
	1	3
+	2	5
	3	8

	T	O
	5	4
+	3	2
	8	6

	T	O
	4	2
+	3	5
	7	7

	T	O
	2	3
+	2	0
	4	3

	T	O
	4	4
+	2	2
	6	6

	T	O
	2	5
+	3	3
	5	8

	T	O
	5	5
+	2	2
	7	7

	T	O
	7	2
+	2	0
	9	2

	T	O
	6	0
+	2	0
	8	0

	T	O
	3	3
+	1	1
	4	4

	T	O
	7	9
+	2	0
	9	9

	T	O
	7	6
+	1	1
	8	7

	T	O
	9	5
+	0	2
	9	7

	T	O
	8	5
+	1	0
	9	5

Example 2

Add 13, 24 and 35.

	T	O
	1	3
	2	4
+	3	5
	7	2

Step 1

Add the ones together.

$$3 \text{ ones} + 4 \text{ ones} + 5 \text{ ones} = 12 \text{ ones}$$

$$12 \text{ ones} = 10 \text{ ones} + 2 \text{ ones}$$

$$= 1 \text{ ten} + 2 \text{ ones}$$

Write 2 under ones' column and *carry over* 1 ten to the tens' column.

Step 2

Add the tens together including the *carry over*

$$1 \text{ ten} + 2 \text{ tens} + 3 \text{ tens} + 1 \text{ ten (carry over)} = 7 \text{ tens}$$

Write 7 under tens' column.

Ans. 72

Exercise

Add the following by regrouping.

	T	O
	8	6
+	1	5
	10	1

	T	O
	4	7
+	4	5
	9	2

	T	O
	3	5
+	4	6
	8	1

	T	O
	7	5
+	1	5
	9	0

	T	O
	7	5
+	1	6
	9	1

	T	O
	5	7
+	1	3
	7	0

	T	O
	3	9
+	2	7
	6	6

	T	O
	5	8
+	1	8
	7	6

	T	O
	5	5
+	0	7
	6	2

	T	O
	1	9
+	1	7
	3	6

	T	O
	4	3
	1	4
+	2	3
	8	0

	T	O
	2	3
	3	5
+	3	6
	9	4

	T	O
	1	4
	4	5
+	2	7
	8	6

	T	O
	2	2
	5	5
+	1	4
	9	1

	T	O
	3	8
	1	4
+	2	2
	7	4