

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.

$$2 \text{ ones} + 5 \text{ ones} = 7 \text{ ones}$$

Step 3 : Then, add the tens together and write below tens' column.

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

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	
	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	
	①	
	8 6	
+	1 5	
	10 1	

	T O	
	①	
	4 7	
+	4 5	
	9 2	

	T O	
	①	
	3 5	
+	4 6	
	8 1	

	T O	
	①	
	7 5	
+	1 5	
	9 0	

	T O	
	①	
	7 5	
+	1 6	
	9 1	

	T O	
	①	
	5 7	
+	1 3	
	7 0	

	T O	
	①	
	3 9	
+	2 7	
	6 6	

	T O	
	①	
	5 8	
+	1 8	
	7 6	

	T O	
	①	
	5 5	
+	0 7	
	6 2	

	T O	
	①	
	1 9	
+	1 7	
	3 6	

	T O	
	①	
	4 3	
	1 4	
+	2 3	
	8 0	

	T O	
	①	
	2 3	
	3 5	
+	3 6	
	9 4	

	T O	
	①	
	1 4	
	4 5	
+	2 7	
	8 6	

	T O	
	①	
	2 2	
	5 5	
+	1 4	
	9 1	

	T O	
	①	
	3 8	
	1 4	
+	2 2	
	7 4	