

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

Example

Add 12 and 15.

T	O
1	2
+ 1	5
2	7

$$\begin{array}{r}
 \text{T O} \\
 32 \\
 + 45 \\
 \hline
 77
 \end{array}$$

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
②	
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
②	
3 8	
1 4	
+ 2 2	
7 4	