

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
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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
	⓪	
	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
	⓪	
	8	6
+	1	5
10 1		

	T	O
	⓪	
	4	7
+	4	5
9 2		

	T	O
	⓪	
	3	5
+	4	6
8 1		

	T	O
	⓪	
	7	5
+	1	5
9 10		

	T	O
	⓪	
	7	5
+	1	6
9 1		

	T	O
	⓪	
	5	7
+	1	3
7 0		

	T	O
	⓪	
	3	9
+	2	7
6 6		

	T	O
	⓪	
	5	8
+	1	8
7 6		

	T	O
	⓪	
	5	5
+	0	7
6 2		

	T	O
	⓪	
	1	9
+	1	7
3 6		

	T	O
	⓪	
	4	3
	1	4
+	2	3
8 0		

	T	O
	⓪	
	2	3
	3	5
+	3	6
9 4		

	T	O
	⓪	
	1	4
	4	5
+	2	7
8 6		

	T	O
	⓪	
	2	2
	5	5
+	1	4
9 1		

	T	O
	⓪	
	3	8
	1	4
+	2	2
7 4		