

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

Example

Add 12 and 15.

$$\begin{array}{r} \text{T} \quad \text{O} \\ 1 \quad 2 \\ + 1 \quad 5 \\ \hline 2 \quad 7 \end{array}$$

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.

$$\begin{array}{r} \text{T} \quad \text{O} \\ 3 \quad 5 \\ + 1 \quad 2 \\ \hline 4 \quad 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 1 \quad 3 \\ + 2 \quad 5 \\ \hline 3 \quad 8 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 4 \\ + 3 \quad 2 \\ \hline 8 \quad 6 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 4 \quad 2 \\ + 3 \quad 5 \\ \hline 7 \quad 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 2 \quad 3 \\ + 2 \quad 0 \\ \hline 4 \quad 3 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 4 \quad 4 \\ + 2 \quad 2 \\ \hline 6 \quad 6 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 2 \quad 5 \\ + 3 \quad 3 \\ \hline 5 \quad 8 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 5 \\ + 2 \quad 2 \\ \hline 7 \quad 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 2 \\ + 2 \quad 0 \\ \hline 9 \quad 2 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 0 \\ + 2 \quad 0 \\ \hline 8 \quad 0 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 3 \quad 3 \\ + 1 \quad 1 \\ \hline 4 \quad 4 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 9 \\ + 2 \quad 0 \\ \hline 9 \quad 9 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 6 \\ + 1 \quad 1 \\ \hline 8 \quad 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 5 \\ + 0 \quad 2 \\ \hline 9 \quad 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ 8 \quad 5 \\ + 1 \quad 0 \\ \hline 9 \quad 5 \end{array}$$

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
9 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 5	

T	O
5	8
+	1 8
7 3	

T	O
5	5
+	0 7
6 2	

T	O
1	9
+	1 7
3 5	

T	O
4	3
1	4
+	2 3
8 0	

T	O
2	3
3	5
+	3 6
8 4	

T	O
1	4
4	5
+	2 7
8 0	

T	O
2	2
5	5
+	1 4
9 2	

T	O
3	8
1	4
+	2 2
7 4	