

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.

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

47

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

38

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

86

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

77

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

43

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

66

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

58

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

77

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

92

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

80

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

44

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

99

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

87

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

97

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

95

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	