

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

## Example

Add 12 and 15.

$$\begin{array}{r} \text{T O} \\ 12 \\ + 15 \\ \hline 27 \end{array}$$

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.

$$\begin{array}{r} \text{T O} \\ 35 \\ + 12 \\ \hline 47 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 13 \\ + 25 \\ \hline 38 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 54 \\ + 32 \\ \hline 86 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 42 \\ + 35 \\ \hline 77 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 23 \\ + 20 \\ \hline 43 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 44 \\ + 22 \\ \hline 66 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 25 \\ + 33 \\ \hline 58 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 55 \\ + 22 \\ \hline 77 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 72 \\ + 20 \\ \hline 92 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 60 \\ + 20 \\ \hline 80 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 33 \\ + 11 \\ \hline 44 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 79 \\ + 20 \\ \hline 99 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 76 \\ + 11 \\ \hline 87 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 95 \\ + 02 \\ \hline 97 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 85 \\ + 10 \\ \hline 95 \end{array}$$



**Example 2** Add 13, 24 and 35.

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 13 \\
 24 \\
 + 35 \\
 \hline
 72
 \end{array}$$

**Step 1 :** Add the ones together.

$$\begin{aligned}
 3 \text{ ones} + 4 \text{ ones} + 5 \text{ ones} &= 12 \text{ ones} \\
 12 \text{ ones} &= 10 \text{ ones} + 2 \text{ ones} \\
 &= 1 \text{ ten} + 2 \text{ ones}
 \end{aligned}$$

Write 2 under ones' column and carry over 1 ten to the tens' column.

**Step 2 :** Add the tens together including the carry over.

$$\begin{aligned}
 1 \text{ ten} + 2 \text{ tens} + 3 \text{ tens} + 1 \text{ ten (carry over)} \\
 = 7 \text{ tens}
 \end{aligned}$$

Write 7 under tens' column.

**Ans. 72**

**Exercise**

Add the following by regrouping.

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 86 \\
 + 15 \\
 \hline
 101
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 47 \\
 + 45 \\
 \hline
 92
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 35 \\
 + 46 \\
 \hline
 81
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 75 \\
 + 15 \\
 \hline
 90
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 75 \\
 + 16 \\
 \hline
 91
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 57 \\
 + 13 \\
 \hline
 70
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 39 \\
 + 27 \\
 \hline
 66
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 58 \\
 + 18 \\
 \hline
 76
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 55 \\
 + 07 \\
 \hline
 62
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 19 \\
 + 17 \\
 \hline
 36
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 43 \\
 14 \\
 + 23 \\
 \hline
 80
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 23 \\
 35 \\
 + 36 \\
 \hline
 94
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 14 \\
 45 \\
 + 27 \\
 \hline
 86
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 22 \\
 55 \\
 + 14 \\
 \hline
 91
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \textcircled{1} \\
 38 \\
 14 \\
 + 22 \\
 \hline
 74
 \end{array}$$