

# Addition of Two 2-digit Numbers (Tens and Ones)

## 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

H.W

## Exercise

Add the following.

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 3 \quad 5 \\
 + 1 \quad 2 \\
 \hline
 47
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 1 \quad 3 \\
 + 2 \quad 5 \\
 \hline
 38
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 5 \quad 4 \\
 + 3 \quad 2 \\
 \hline
 86
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 4 \quad 2 \\
 + 3 \quad 5 \\
 \hline
 77
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 2 \quad 3 \\
 + 2 \quad 0 \\
 \hline
 43
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 4 \quad 4 \\
 + 2 \quad 2 \\
 \hline
 66
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 2 \quad 5 \\
 + 3 \quad 3 \\
 \hline
 58
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 5 \quad 5 \\
 + 2 \quad 2 \\
 \hline
 77
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 7 \quad 2 \\
 + 2 \quad 0 \\
 \hline
 92
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 6 \quad 0 \\
 + 2 \quad 0 \\
 \hline
 80
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 3 \quad 3 \\
 + 1 \quad 1 \\
 \hline
 44
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 7 \quad 9 \\
 + 2 \quad 0 \\
 \hline
 99
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 7 \quad 6 \\
 + 1 \quad 1 \\
 \hline
 87
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 9 \quad 5 \\
 + 0 \quad 2 \\
 \hline
 97
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 8 \quad 5 \\
 + 1 \quad 0 \\
 \hline
 95
 \end{array}$$

**Example 2**

Add 13, 24 and 35.

T	O
1	3
2	4
+ 3	5
<b>7 2</b>	

**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.

$$1 \text{ ten} + 2 \text{ tens} + 3 \text{ tens} + 1 \text{ ten} \text{ (carry over)}$$

$$= 7 \text{ tens}$$

Write 7 under tens' column.

**Ans.** 72

H.W

**Exercise**

Add the following by regrouping.

T	O
1	0
8	6
+ 1	5
<b>101</b>	

T	O
1	0
4	7
+ 4	5
<b>92</b>	

T	O
1	0
3	5
+ 4	6
<b>82</b>	

T	O
1	0
7	5
+ 1	5
<b>90</b>	

T	O
1	0
7	5
+ 1	6
<b>91</b>	

T	O
1	0
5	7
+ 1	3
<b>70</b>	

T	O
1	0
3	9
+ 2	7
<b>66</b>	

T	O
1	0
5	8
+ 1	8
<b>76</b>	

T	O
1	0
5	5
+ 0	7
<b>62</b>	

T	O
1	0
1	9
+ 1	7
<b>36</b>	

T	O
1	0
4	3
1	4
+ 2	3
<b>80</b>	

T	O
1	0
2	3
3	5
+ 3	6
<b>94</b>	

T	O
1	0
1	4
4	5
+ 2	7
<b>86</b>	

T	O
1	0
2	2
5	5
+ 1	4
<b>91</b>	

T	O
1	0
3	8
1	4
+ 2	2
<b>74</b>	