



## Operations on Whole Numbers Ex 4.2 Q3

**Answer :**

(i)

$$\begin{array}{r} \textcircled{6} \textcircled{16} \\ 87\cancel{6} \\ - *3* \\ \hline 6*7 \end{array}$$

Here, we can see that in the units digit,  $6 - * = 7$ , which means that the value of  $*$  is 9, as 1 gets carried from 7 at tens place to 6 at unit place and 6 at unit digit becomes 16 then  $16 - 9 = 7$ .

Now, when 7 gives 1 to 6, it becomes 6, so  $6 - 3 = 3$ .

Also, it can be easily deduced that in  $(8 - * = 6)$ , the value of  $*$  is 2.

$$\begin{array}{r} 876 \\ - 239 \\ \hline 637 \end{array}$$

(ii)

Here, it is clear that in the units place,  $9 - 4 = 5$ ; and in the tens place,  $8 - 3 = 5$ .

We can now easily find out the other missing blanks by subtracting 3455 from 8989.

$$\begin{array}{r} 8989 \\ - 3455 \\ \hline 5534 \end{array}$$

Addend (difference) = 3455

Thus, the correct answer is :

$$\begin{array}{r} 8989 \\ - 5534 \\ \hline 3455 \end{array}$$

(iii)

$$\begin{array}{r} \textcircled{5} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \textcircled{9} \textcircled{17} \\ \cancel{6} \cancel{0} \cancel{0} \cancel{0} \cancel{1} \cancel{0} \cancel{7} \\ - 0* * 8978 \\ \hline 506* * * * \end{array}$$

Here, in the units digit,  $17 - 8 = 9$ ; in the tens digit,  $9 - 7 = 2$ ; in the hundreds place,  $10 - 9 = 1$ ; and in the thousands place,  $9 - 8 = 1$ .

Addend difference = 5061129

So, in order to get the addend, we will subtract 5061129 from 6000107.

$$\begin{array}{r} 6000107 \\ - 5061129 \\ \hline 0938978 \end{array}$$

Thus, the correct answer is:

$$\begin{array}{r} 6000107 \\ - 0938978 \\ \hline 5061129 \end{array}$$

(iv)

$$\begin{array}{r} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{9} \cancel{9} \cancel{9} \cancel{9} \cancel{9} \cancel{9} \\ - \quad * * * * 1 \\ \hline * 7 0 4 2 * \end{array}$$

In the units place,  $10 - 1 = 9$ . Also, in the lakhs place,  $9 - 0 = 9$ . So, clearly the addend (difference) is 970429.

To find out the other addend, we will subtract 970429 from 1000000.

$$\begin{array}{r} 1000000 \\ - 0970429 \\ \hline 0029571 \end{array}$$

Thus, the correct answer is:

$$\begin{array}{r} 1000000 \\ - 0029571 \\ \hline 0970429 \end{array}$$

(v)

$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{10} \textcircled{9} \textcircled{9} \textcircled{13} \\ \cancel{4} \cancel{9} \cancel{9} \cancel{10} \cancel{9} \cancel{9} \cancel{13} \\ - 0 * * 6 9 8 7 \\ \hline 4 8 4 * * * * \end{array}$$

Here, in the units digit,  $13 - 7 = 6$ ; in the tens digit,  $9 - 8 = 1$ ; in the hundreds place,  $9 - 9 = 0$ ; and in the thousands place,  $10 - 6 = 4$ .

Addend (difference) = 484016

So, to get the other addend, we will subtract 484016 from 5001003.

$$\begin{array}{r} 5001003 \\ - 4844016 \\ \hline 0156987 \end{array}$$

Thus, the other addend is 156987.

The correct answer is:

$$\begin{array}{r} 5001003 \\ - 0156987 \\ \hline 4844016 \end{array}$$

(vi)

$$\begin{array}{r} \textcircled{0} \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{11} \\ \cancel{0} \cancel{10} \cancel{10} \cancel{10} \cancel{10} \cancel{11} \\ - \quad * 6 7 8 9 \\ \hline 5 4 3 2 * \end{array}$$

It is clear from the units place that  $11 - 9 = 2$ . So, the addend (difference) is 54322.

So, to get the other addend, we will subtract 54322 from 111111.

$$\begin{array}{r} 111111 \\ - 54322 \\ \hline 56789 \end{array}$$

Thus, the other addend is 56789.

The correct answer is:

$$\begin{array}{r} 111111 \\ - 56789 \\ \hline 54322 \end{array}$$

\*\*\*\*\* END \*\*\*\*\*