

## Properties of Addition

⇒ Numbers can be added in any order. Their sum will remain same.

Example →  $1739 + 10,365 = 10,365 + 1739$

$$\begin{array}{r} 1739 \\ + 10365 \\ \hline 12104 \end{array} = \begin{array}{r} 10,365 \\ + 1739 \\ \hline 12,104 \end{array}$$

same

⇒ When 1 is added to a number the sum is the successor of the number.

Example →  $5437 + 1 = 5438$

Successor of 5437

⇒ When 0 is added to a number the sum is the number itself.

Ex →  $28,567 + 0 = 28,567$

$0 + 1,34,761 = 1,34,761$

Note → The sum is always greater than the numbers being added.

(This is not true if one of the two numbers is zero)

Example →  $359 + 120 = 479$

$479 > 359$  and  $479 > 120$ .

## Exercise - 2.2

(A) Fill in the blanks

1)  $27943 + 35961 = 35961 + \underline{27943}$

2) Successor of 99999 = 100000

3)  $37005 + 0 = \underline{37005}$

4)  $41052 + \underline{1} = 41052$

(B) Add and check the answer.

① 
$$\begin{array}{r} 3452 \\ + 4356 \\ \hline 7808 \end{array}$$
     
$$\begin{array}{r} 7808 \\ 3452 \\ + 4356 \\ \hline 7808 \end{array}$$

② 
$$\begin{array}{r} 6705 \\ + 2048 \\ \hline 8753 \end{array}$$
     
$$\begin{array}{r} 8753 \\ 6705 \\ + 2048 \\ \hline 8753 \end{array}$$

(DO as no. 3 and 4 by own)

(C) Estimate each sum. Also find the exact sum.

Question	Rounded off to the	Estimated sum	Exact sum
1- $56 + 72$	Nearest 10 $60 + 70$	130	128
2- $315 + 425$	Nearest 100 $300 + 400$	700	740
3- $3892 + 5380$	Nearest 1000 $4000 + 5000$	9000	9272

(D) Add horizontally and find the sum.

①  $48 + 21 = 69$      ②  $37 + 14 = 51$

③  $15 + 346 = 361$      ④  $225 + 148 = 373$

⑤  $521 + 711 = 1232$      ⑥  $380 + 479 = 859$

(DO as no. 7, 8, 9 by own)