

SESSION : 4
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 4
CHAPTER NAME : ADDITION
**SUBTOPIC : PROPERTIES OF ADDITION AND
ADDITION OF LARGE NUMBERS,
EXERCISE- 4 B Q.NO. 1**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

- Enable the students to understand the properties of addition and addition of large numbers.

ADDITION

Properties of Addition

1. Order property or commutative property :

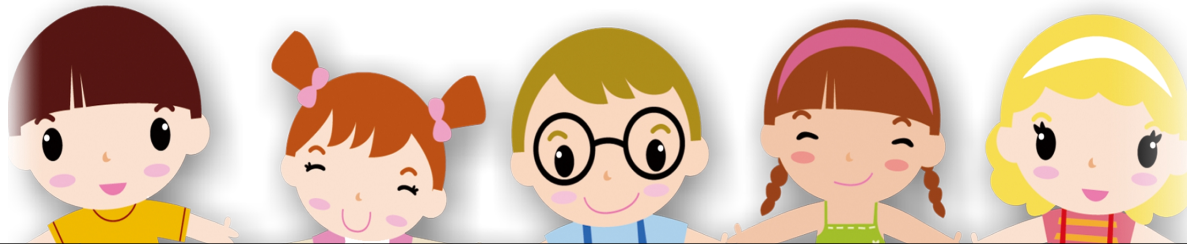
Sum of two numbers remain the same even if the order, in which they are added, is changed.

Example :

$$384475 + 29580 = \mathbf{414055}$$

$$\text{Also, } 29580 + 384475 = \mathbf{414055}$$

$$\text{Thus, } 384475 + 29582 = \mathbf{29580 + 384475}$$



ADDITION

Properties of Addition

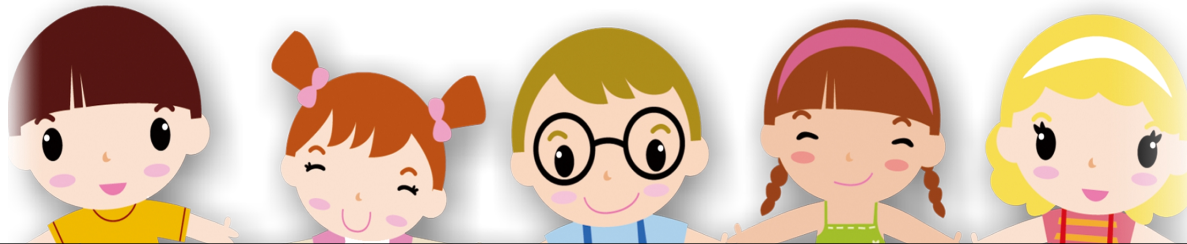
2. Addition of Zero :

If '0' is added to a number, we get the number itself.

Examples :

$$\text{i) } 893247 + 0 = \mathbf{893247}$$

$$\text{ii) } 3754093 + 0 = \mathbf{3754093}$$



ADDITION

Properties of Addition

3. **Grouping numbers are grouped or associative property :**

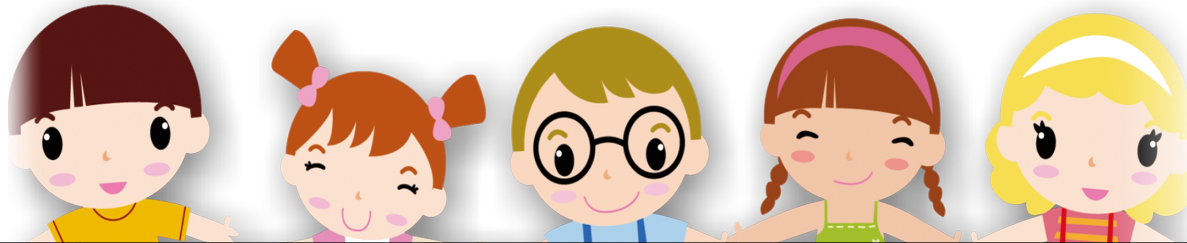
In whatever order three or more numbers are grouped for the purpose of addition, their sum remains the same.

Examples :

$$(532492 + 2600781) + 48900 = \mathbf{532492 + (2600781 + 48900)}$$

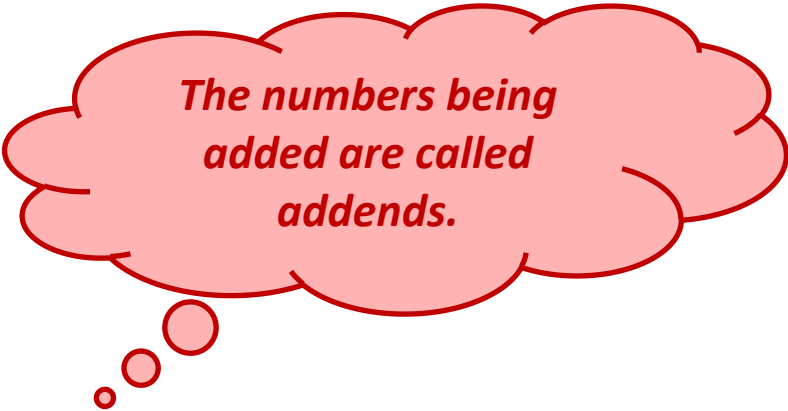
$$(532492 + 2600781) + 48900 = \mathbf{3133273 + 48900}$$

$$\text{Also, } 532492 + (2600781 + 48900) = \mathbf{532492 + 2649681 = 3182173}$$

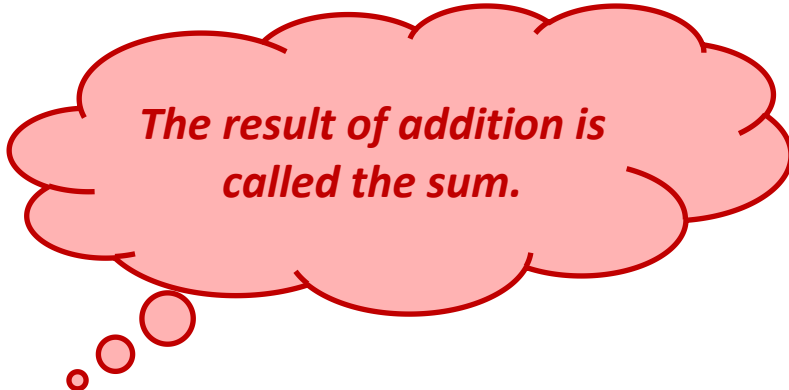


ADDITION

Addition of Large Numbers



The numbers being added are called addends.



The result of addition is called the sum.

Step – 1 : Arrange the numbers in columns. Ones under ones, tens under tens and so on.

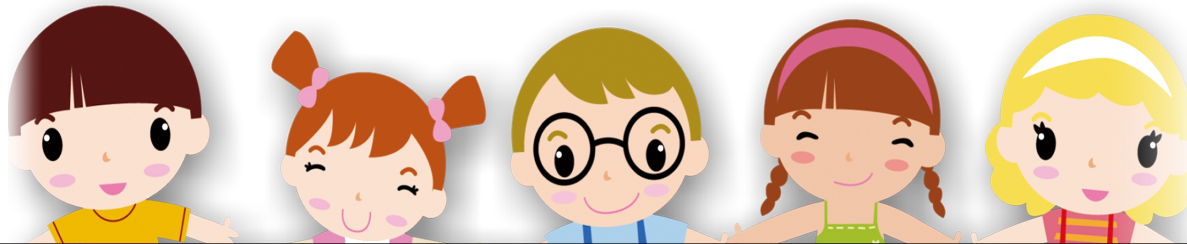
Step – 2 : Add the digits in each column. **(always start with ones)**. Take the carry over **(if any)** to the next column and add it with the digits in that column. Continue till the last column.

ADDITION

Addition of Large Numbers

Examples : Add 6,26,405, 1,08,842 and 2,15,456

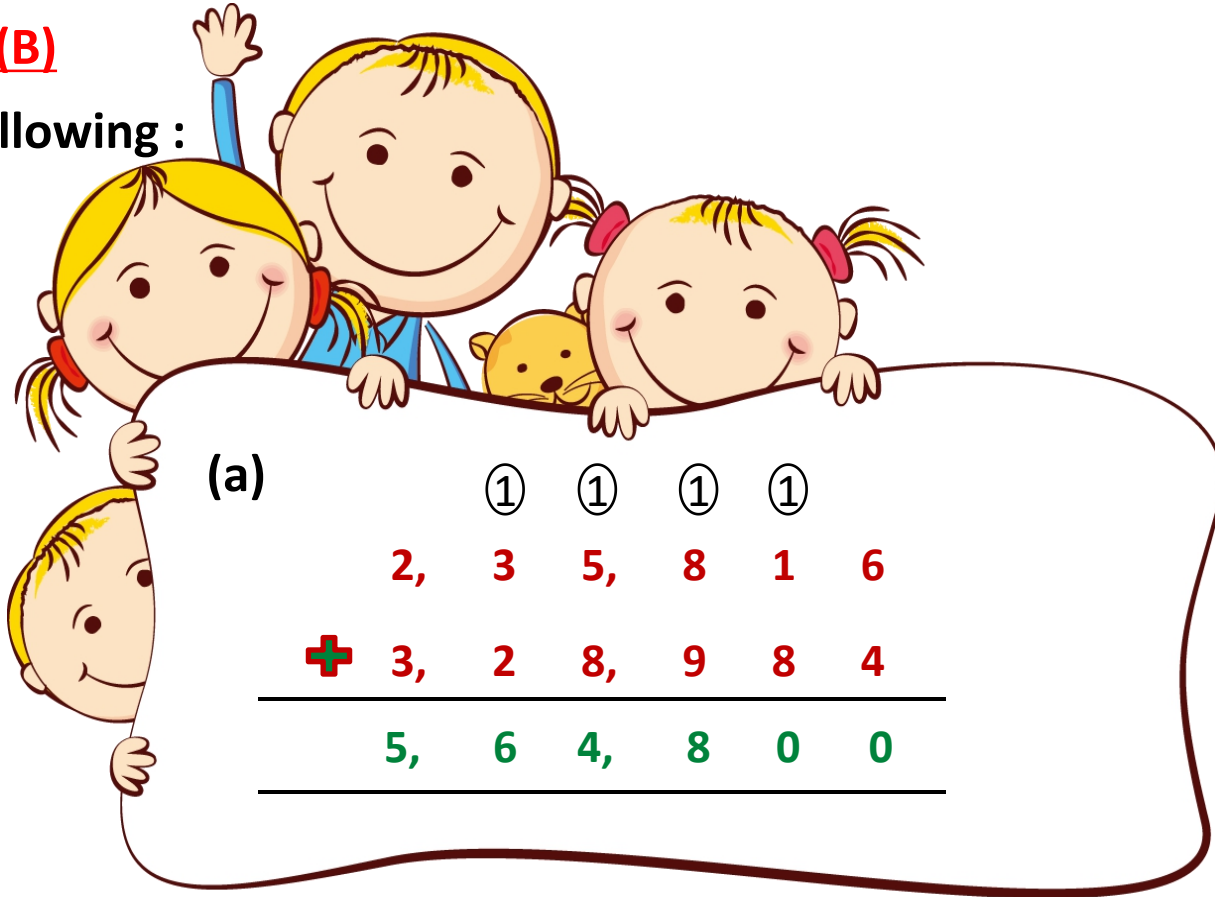
$$\begin{array}{r} \text{Solution :} \quad 6, \quad \overset{\textcircled{2}}{2} \quad \overset{\textcircled{1}}{6}, \quad \overset{\textcircled{1}}{4} \quad \overset{\textcircled{1}}{0} \quad 5 \\ \quad \quad \quad 1, \quad 0 \quad 8, \quad 8 \quad 4 \quad 2 \\ \quad \quad \quad + 2, \quad 1 \quad 5, \quad 4 \quad 5 \quad 6 \\ \hline \quad \quad \quad 9, \quad 5 \quad 0, \quad 7 \quad 0 \quad 3 \\ \hline \end{array}$$



ADDITION

EXERCISE – 4 (B)

1. Add the following :



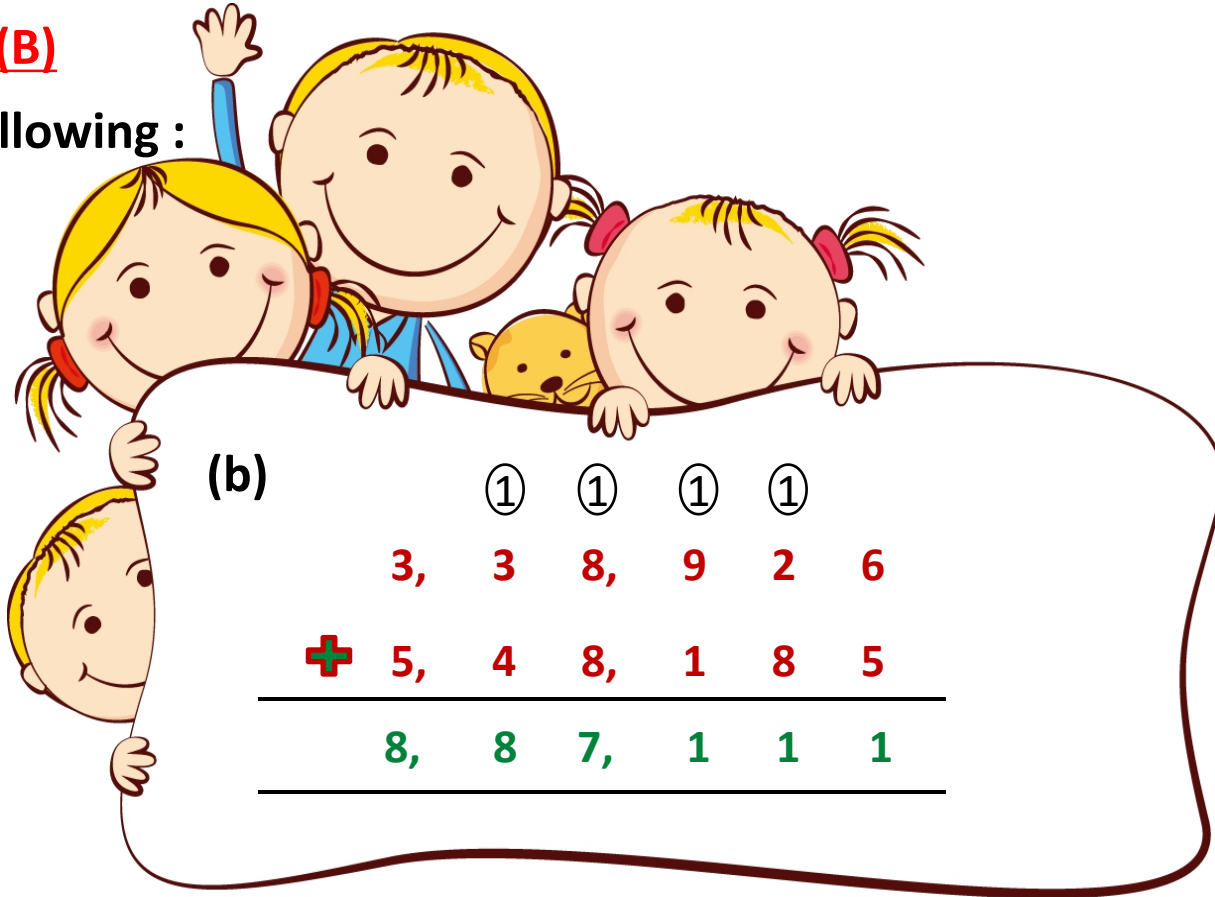
(a)

	①	①	①	①		
	2,	3	5,	8	1	6
+	3,	2	8,	9	8	4
<hr/>						
	5,	6	4,	8	0	0
<hr/>						

ADDITION

EXERCISE – 4 (B)

1. Add the following :



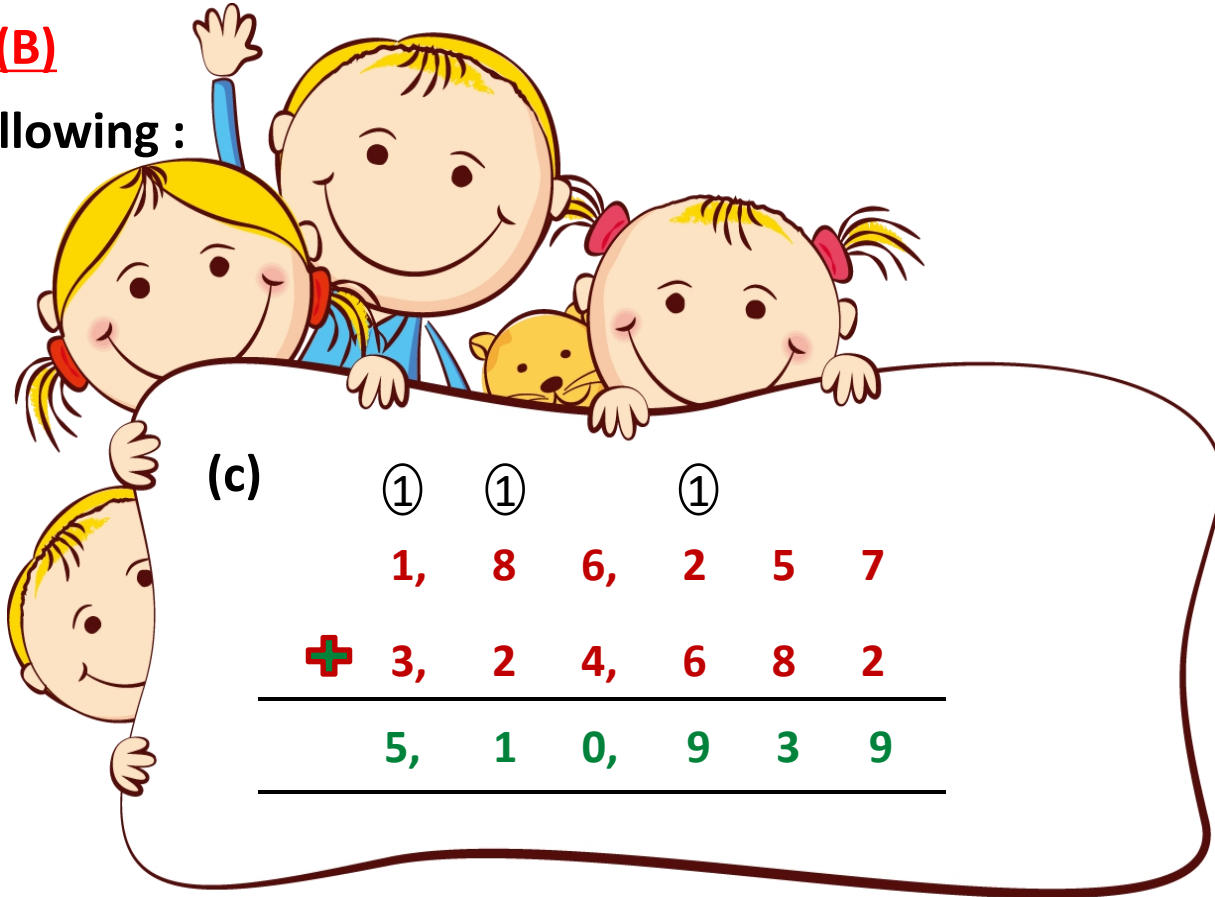
(b)

	①	①	①	①		
	3,	3	8,	9	2	6
+	5,	4	8,	1	8	5
<hr/>						
	8,	8	7,	1	1	1
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ADDITION

EXERCISE – 4 (B)

1. Add the following :



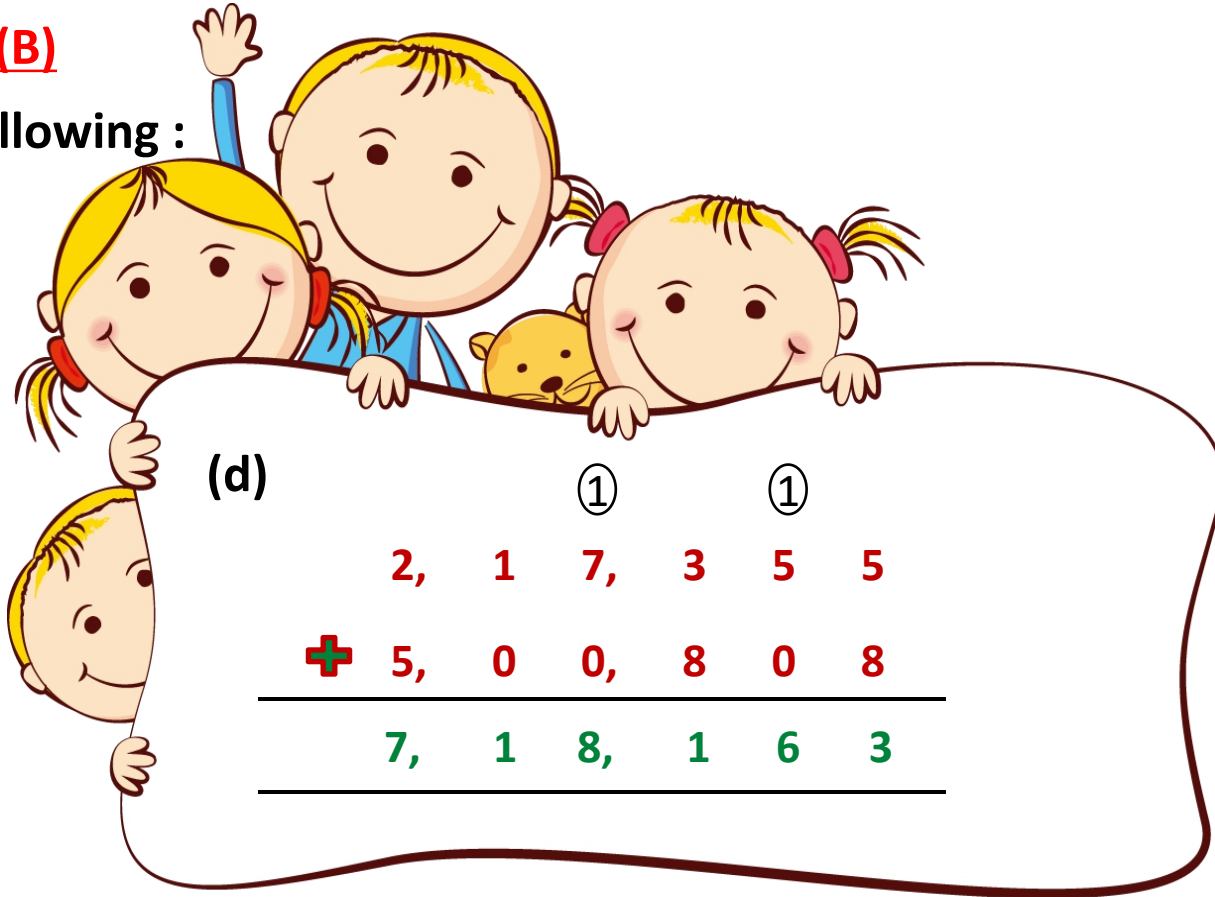
(c)

①	①		①			
1,	8	6,	2	5	7	
+	3,	2	4,	6	8	2
<hr/>						
5,	1	0,	9	3	9	
<hr/>						

ADDITION

EXERCISE – 4 (B)

1. Add the following :



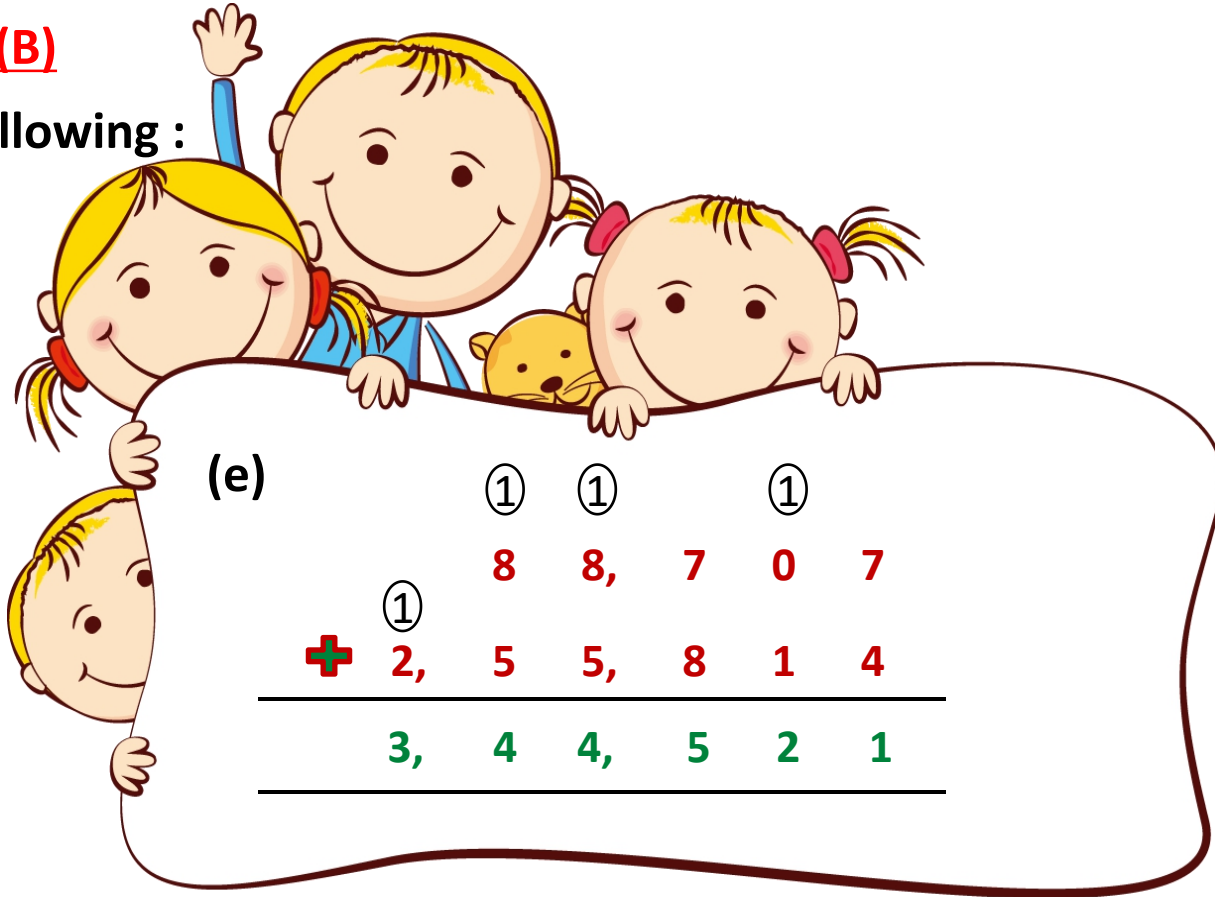
(d)

	①	①				
	2,	1	7,	3	5	5
+	5,	0	0,	8	0	8
<hr/>						
	7,	1	8,	1	6	3
<hr/>						

ADDITION

EXERCISE – 4 (B)

1. Add the following :



(e)

	①	①		①		
	8	8,	7	0	7	
①	+	2,	5	5,	8	1 4
<hr/>						
	3,	4	4,	5	2	1
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HOME ASSIGNMENT:

- **Complete Exercise – 4 B Q.NO. 1 in the notebook.**

LEARNING OUTCOME:

Students are able to know the properties of addition and addition of large numbers.

THANKING YOU
ODM EDUCATIONAL GROUP