

Class - IV

Subject - Mathematics

Note- Complete your work in fair copy, and do practice of remaining questions by your own in rough copy.

Chapter – 3

Addition and Subtraction

Important points :

- The numbers to be added are called addends.
- The answer in addition is called the sum.
- The number to be subtracted is called the subtrahend.
- The number from which another number is subtracted is called minuend.
- The answer in subtraction is called the difference.

Ex. 5 3 7 4 – addend 6 8 7 4 - minuend
 + 4 4 1 5 – addend -2 4 5 3 - subtrahend
 9 7 8 9 – sum 4 4 2 1 – difference

Properties of addition:

- When we add zero to a number , the sum is the number itself.
Ex. $7254 + 0 = 7254$
- When 1 is added to a number , the sum is the successor of the number.
Ex. $3270 + 1 = 3271$
- A change in the order of the addends does not change the sum of the two numbers.
Ex. $42310 + 23410 = 65720$
 $23410 + 42310 = 65720$
- A change in the grouping of the addends does not change the sum of the three numbers.

$$\text{Ex. } (12345 + 54321) + 11111 = 12345 + (54321 + 11111)$$

Properties of subtraction:

- When zero is subtracted from a number, the difference is the number itself .
Ex. $23459 - 0 = 23459$
- When 1 is subtracted from a number , the difference is the predecessor of the number.
Ex. $38478 - 1 = 38477$
- When a number is subtracted from itself , the difference is zero.
Ex. $78172 - 78172 = 0$

Exercise – 1

Q.1 Add the following

(a) Th H T O	(b) Th H T O	(c) Th H T O
4 3 2 5	2 5 2 8	5 9 9 5
+ <u>3 1 4 2</u>	+ <u>3 4 8 7</u>	+ <u>2 5 3 8</u>
7 4 6 7	6 0 1 5	

(Practice (c))

Q.2 Find the sum of;

(a) 4,292 and 3,105 **(b) 6,205 and 2,304**

Sol. Th H T O	Sol. Th H T O
4 2 9 2	6 2 0 5
+ <u>3 1 0 5</u>	+ <u>2 3 0 4</u>
7 3 9 7	8 5 0 9

(c) 4,114 and 3,763

Sol. Th H T O

$$\begin{array}{r} 4\ 1\ 1\ 4 \\ +3\ 7\ 6\ 3 \\ \hline 7\ 8\ 7\ 7 \end{array}$$

(d) 8,653 and 1,059

Sol. Th H T O

$$\begin{array}{r} 8\ 6\ 5\ 3 \\ +\ 1\ 0\ 5\ 9 \\ \hline 9\ 7\ 1\ 2 \end{array}$$

(e) 4,198 and 2,275

Sol. Practice

(f) 5,224 and 3,275

Sol. Practice

Exercise – 2

Q.1 Find the sum of ;

(a) 23,312 and 35,233

Sol. TTh Th H T O

$$\begin{array}{r} 2\ 3\ 3\ 1\ 2 \\ +3\ 5\ 2\ 3\ 3 \\ \hline 5\ 8\ 5\ 4\ 5 \end{array}$$

(b) 40,718 and 57, 161

Sol. TTh Th H T O

$$\begin{array}{r} 4\ 0\ 7\ 1\ 8 \\ +\ 5\ 7\ 1\ 6\ 1 \\ \hline 9\ 7\ 8\ 7\ 9 \end{array}$$

(c) 72, 354 and 13,215

Sol. TTh Th H T O

$$\begin{array}{r} 7\ 2\ 3\ 5\ 4 \\ +\ 1\ 3\ 2\ 1\ 5 \\ \hline 8\ 5\ 5\ 6\ 9 \end{array}$$

(d) 52,735 and 35,025

Sol. TTh Th H T O

$$\begin{array}{r} 5\ 2\ 7\ 3\ 5 \\ +3\ 5\ 0\ 2\ 5 \\ \hline 8\ 7\ 7\ 6\ 0 \end{array}$$

(e) 15,427 and 67, 553

Sol . Practice

(f) 49,999 and 26,745

Sol. Practice

Q. 2 Add the following

(a) TTh Th H T O

$$\begin{array}{r} 3\ 3\ 0\ 2\ 1 \\ + 2\ 3\ 5\ 6\ 8 \\ \hline 5\ 6\ 5\ 8\ 9 \end{array}$$

(b) TTh Th H T O

$$\begin{array}{r} 3\ 8\ 4\ 2\ 7 \\ + 4\ 2\ 8\ 1\ 2 \\ \hline 8\ 1\ 2\ 3\ 9 \end{array}$$

(c) TTh Th H T O

$$\begin{array}{r} 5\ 2\ 7\ 6\ 8 \\ + 1\ 6\ 7\ 2\ 0 \\ \hline \end{array}$$

(Practice (c))

Exercise – 3

Q.1 Add the following

(a) L TTh Th H T O

$$\begin{array}{r} 6\ 5\ 4\ 3\ 2\ 1 \\ + 1\ 2\ 3\ 4\ 5\ 6 \\ \hline 7\ 7\ 7\ 7\ 7\ 7 \end{array}$$

(b) L TTh Th H T O

$$\begin{array}{r} 5\ 3\ 1\ 7\ 8\ 6 \\ + 1\ 7\ 3\ 4\ 3\ 8 \\ \hline \end{array}$$

(Practice (b))

Q.2 Find the sum of ;

(a) 1,54,023 and 4,21,746

Sol. L TTh Th H T O

$$\begin{array}{r} 1\ 5\ 4\ 0\ 2\ 3 \\ + 4\ 2\ 1\ 7\ 4\ 6 \\ \hline 5\ 7\ 5\ 7\ 6\ 9 \end{array}$$

(b) 2,40,125 and 3,47,521

Sol. L TTh Th H T O

$$\begin{array}{r} 2\ 4\ 0\ 1\ 2\ 5 \\ + 3\ 4\ 7\ 5\ 2\ 1 \\ \hline 5\ 8\ 7\ 6\ 4\ 6 \end{array}$$

(c) 5,27,123 and 3,17,298

Sol. Practice

(d) 4,97,513 and 3,48,789

Sol. Practice

Exercise – 4

Q. 1 Fill in the blanks

(1) $4634 + \underline{\hspace{2cm}} = 4634$

(2) $21346 + 1 = \underline{\hspace{2cm}}$

(3) $34567 + \underline{\hspace{2cm}} = 34568$

(4) $14357 + 19235 = 19235 + \underline{\hspace{2cm}}$

(5) $82547 + (35458 + 10000) = (82547 + \underline{\hspace{2cm}}) + 10000$

(6) $(112000 + 135400) + 234567 = 112000 + (135400 + \underline{\hspace{2cm}})$

Note: Write the answer by using property of addition

Exercise – 5

(1) The cost of motorcycle is ₹ 42,850 and the cost of a scooter is ₹ 28,350. What is the total cost of both the vehicles?

Sol. The cost of motorcycle = ₹ 42,850

The cost of scooter = ₹ 28,350

Total cost of both the vehicles = $42,850 + 28,350$

$$\begin{array}{r} 42850 \\ + \underline{28350} \\ \hline 71200 \end{array}$$

Thus cost of both the vehicles is ₹ 71,200.

(2) A factory manufactured 72,584 locks in 2013 and 37,846 locks in 2014. How many locks did the factory manufacture in the two years?

Sol. Practice

(3) During a census, it was found that there were 2,34,786 males and 1,93,877 females in a town. Find the total population of the town.

Sol. No. of males in the town = 2,34,786

No. of females in the town = 1,93,877

Total population of the town = 2,34,786 + 1,93,877

$$\begin{array}{r} 234786 \\ + \underline{193877} \\ \hline 428663 \end{array}$$

Thus total population of a town is 4,28,663.

(4) A number exceeds 8,76,543 by 12,345. Find the number.

Sol. A number exceeds 8,76,543 by 12,345

So the number = 8,76,543 + 12,345

$$\begin{array}{r} 876543 \\ + \underline{12345} \\ \hline 888888 \end{array}$$

Thus the number is 8,88,888.

Exercise – 6

Q. 1 Subtract

(a) Th H T O (b) Th H T O (c) Th H T O

8 4 5 6	7 9 1 3	7 7 7 7
- <u>4 2 3 2</u>	- <u>4 6 8 1</u>	- <u>2 9 2 5</u>
4 2 2 4	3 2 3 2	

(Practice (c))

Q.2 Subtract

(a) 5,834 – 2,512

Sol. Th H T O

$$\begin{array}{r} 5834 \\ - 2512 \\ \hline 3322 \end{array}$$

(b) 9,462 – 7,230

Sol. Th H T O

$$\begin{array}{r} 9462 \\ - 7230 \\ \hline 2232 \end{array}$$

(c) 3,332 – 2,321

Sol. Th H T O

$$\begin{array}{r} 3332 \\ - 2321 \\ \hline 1011 \end{array}$$

(e) 2,982 – 1,988

Sol. Th H T O

$$\begin{array}{r} 2982 \\ - 1988 \\ \hline 0994 \end{array}$$

(d) 4,156 – 2,913

Sol. Practice

(f) 7,980 – 6,992

Sol. Practice

Exercise – 7

Q.1 Subtract

(a) TTh Th H T O

$$\begin{array}{r} 28456 \\ - 14232 \\ \hline 14224 \end{array}$$

(b) TTh Th H T O

$$\begin{array}{r} 60000 \\ - 45454 \\ \hline 14546 \end{array}$$

(c) TTh Th H T O

$$\begin{array}{r} 75467 \\ - 41358 \\ \hline \end{array}$$

(Practice (c))

Q.2 Subtract

(a) 51,834 – 20,512

(b) 89,462 – 27,230

Sol. TTh Th H T O

$$\begin{array}{r} 5\ 1\ 8\ 3\ 4 \\ -\ 2\ 0\ 5\ 1\ 2 \\ \hline 3\ 1\ 3\ 2\ 2 \end{array}$$

Sol. TTh Th H T O

$$\begin{array}{r} 8\ 9\ 4\ 6\ 2 \\ -\ 2\ 7\ 2\ 3\ 0 \\ \hline 6\ 2\ 2\ 3\ 2 \end{array}$$

(e) 78,378 – 36,089

Sol. TTh Th H T O

$$\begin{array}{r} 7\ 8\ 3\ 7\ 8 \\ -\ 3\ 6\ 0\ 8\ 9 \\ \hline 4\ 2\ 2\ 8\ 9 \end{array}$$

(f) 24,008 – 21,778

Sol. TTh Th H T O

$$\begin{array}{r} 2\ 4\ 0\ 0\ 8 \\ -\ 2\ 1\ 7\ 7\ 8 \\ \hline 0\ 2\ 2\ 3\ 0 \end{array}$$

(c) 33333 - 12321

Sol. Practice

(d) 93115 – 87767

Sol. Practice

Q.3 Subtract the greatest 5-digit number from the smallest 6-digit number.

Sol. Greatest 5-digit number = 99,999

Smallest 6-digit number = 1,00,000

Difference = 100000 - 99999

$$\begin{array}{r} 100000 \\ -\ 99999 \\ \hline 000001 \end{array}$$

Thus the answer is 1

Exercise – 8

Q.1 Find the difference between

(a) 4,83,695 and 1,51,343 (c) 7,14,345 and 5,37,705

Sol. L TTh Th H T O

$$\begin{array}{r} 4 \ 8 \ 3 \ 6 \ 9 \ 5 \\ - \ 1 \ 5 \ 1 \ 3 \ 4 \ 3 \\ \hline 3 \ 3 \ 2 \ 3 \ 5 \ 2 \end{array}$$

Sol. L TTh Th H T O

$$\begin{array}{r} 7 \ 1 \ 4 \ 3 \ 4 \ 5 \\ - \ 5 \ 3 \ 7 \ 7 \ 0 \ 5 \\ \hline 1 \ 7 \ 6 \ 6 \ 4 \ 0 \end{array}$$

(b) 6,31,296 and 4,61,053 (d) 6,67,800 and 3,45,925

Sol. Practice

Sol. Practice

Q.2 Subtract

(a) L TTh Th H T O (b) L TTh Th H T O (c) L TTh Th H T O

$$\begin{array}{r} 2 \ 8 \ 5 \ 4 \ 6 \ 9 \\ - \ 1 \ 3 \ 5 \ 3 \ 4 \ 4 \\ \hline 1 \ 5 \ 0 \ 1 \ 2 \ 5 \end{array} \quad \begin{array}{r} 5 \ 3 \ 2 \ 6 \ 4 \ 0 \\ - \ 2 \ 7 \ 5 \ 3 \ 2 \ 4 \\ \hline 2 \ 5 \ 7 \ 3 \ 1 \ 6 \end{array} \quad \begin{array}{r} 6 \ 4 \ 3 \ 6 \ 7 \ 2 \\ - \ 3 \ 1 \ 9 \ 5 \ 1 \ 7 \\ \hline \end{array}$$

(Practice (c))

Q.3 Fill in the blanks with correct digit

$$\begin{array}{r} \text{(a)} \ 7 \ 6 \ \boxed{3} \ 1 \ \boxed{4} \ 5 \\ - \ \boxed{4} \ 2 \ 1 \ \boxed{3} \ 0 \ 8 \\ \hline 3 \ \boxed{4} \ 1 \ 8 \ 3 \ \boxed{7} \end{array} \quad \begin{array}{r} \text{(b)} \ 8 \ \boxed{} \ 6 \ 7 \ \boxed{} \ 4 \\ - \ 2 \ 5 \ \boxed{} \ 5 \ 4 \ 2 \\ \hline \boxed{} \ 4 \ 3 \ \boxed{} \ 3 \ \boxed{} \end{array}$$

(Practice (b))

Exercise - 9

Q.1 Solve the following

(a) $5\ 4\ 3\ 2$

+ $6\ 3\ 1\ 4$

$1\ 1\ 7\ 4\ 6$

Check :

$1\ 1\ 7\ 4\ 6$	$1\ 1\ 7\ 4\ 6$
$- \underline{5\ 4\ 3\ 2}$	$- \underline{6\ 3\ 1\ 4}$
$6\ 3\ 1\ 4$	$5\ 4\ 3\ 2$

(b) $8\ 9\ 6\ 4\ 3$

+ $5\ 4\ 3\ 9\ 2$

$1\ 4\ 4\ 0\ 3\ 5$

Check :

$1\ 4\ 4\ 0\ 3\ 5$	$1\ 4\ 4\ 0\ 3\ 5$
$- \underline{8\ 9\ 6\ 4\ 3}$	$- \underline{5\ 4\ 3\ 9\ 2}$
$5\ 4\ 3\ 9\ 2$	$8\ 9\ 6\ 4\ 3$

(c) $6\ 7\ 4\ 3\ 1$

+ $5\ 9\ 9\ 8\ 1$

(Practice (c))

Exercise - 10

Q.1 Fill in the blanks

(a) $28,172 - 0 = \underline{\hspace{2cm}}$

(b) $72,999 - 1 = \underline{\hspace{2cm}}$

(c) $98,233 - \underline{\hspace{2cm}} = 98,232$

(d) $1,14,234 - \underline{\hspace{2cm}} = 1,14,234$

(e) $47,235 - 47,235 = \underline{\hspace{2cm}}$

(f) $72,998 - \underline{\hspace{2cm}} = 0$

Note : Write answer by using property of subtraction

Exercise – 11

(1) The sum of two numbers is 57,295. If one number is 25,487. Find the other number.

Sol. Sum of two numbers = 57,295

One number = 25,487

Other number = $57,295 - 25,487$

$$\begin{array}{r} 57295 \\ - 25487 \\ \hline 31808 \end{array}$$

Thus the other number is 31,808.

(2) The population of a town is 4,75,173 . If the number of males is 2,58,745. Find the number of females in the town.

Sol. The population of a town = 4,75,173

No. of males = 2,58,745

No. of females = $4,75,173 - 2,58,745$

$$\begin{array}{r} 475173 \\ - 258745 \\ \hline 216428 \end{array}$$

Thus 2,16,428 females in the town

(3) What must be added to 43,172 to get 82,054?

Sol.

$$\begin{array}{r} 82054 \\ - 43172 \\ \hline 38882 \end{array}$$

Thus 38,882 should be added.

(4) Mrs. Khanna has ₹ 8,28,050 in her bank account . She used ₹ 4,57,375 to buy a new car. How much money is left with her?

Sol. Practice

(5) 1,45,280 students appeared in an examination. 1,28,425 students passed the examination . How many students failed?

Sol. Practice

(6) Raja bought a television set for ₹ 38,450. He gave ₹ 40,000 to the shopkeeper. How much money will he get back?

Sol. Cost of television = ₹ 38,450

Raja gave to the shopkeeper = ₹ 40,000

Money he will get back = 40,000 – 38,450

$$\begin{array}{r} 40000 \\ - 38450 \\ \hline 01550 \end{array}$$

Thus he will get back ₹ 1550.

(7) A dictionary has 88,728 words. Mohan has read 37,487 words out of these. How many words are left to read?

Sol. A dictionary has words = 88,728

Mohan has read = 37,487

Words are left to be read = 88,728 – 37,487

88728

- 37487

51241

Thus 51,241 words are left to be read.