

Tender Heart High School; Sec-33B, Chandigarh

Class:- IV

Date:- 06.05.2024

Subject:- Mathematics

Teacher:- Ms. Sushma

Chapter-2 Addition and Subtraction

Addends :->

Addends are the numbers or terms that are added together to form the sum.

$$\boxed{7} + \boxed{4} + \boxed{9} = \boxed{20}$$

$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$
Addend Addend Addend Sum

EXERCISE 2.1



A. Add.

$$\begin{array}{r} \textcircled{1} \quad 3756 \\ + 1231 \\ \hline 4987 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 3474 \\ + 1214 \\ \hline 4688 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 2489 \\ + 1211 \\ \hline 3700 \end{array}$$

B. Arrange in columns and add.

1> $3451 + 2809$

$$\begin{array}{r} 3451 \\ + 2809 \\ \hline 6260 \end{array}$$

2> $2286 + 1349$

$$\begin{array}{r} 2286 \\ + 1349 \\ \hline 3635 \end{array}$$

$$\textcircled{3} \quad 2803 + 3456 + 883$$

$$\begin{array}{r} 2803 \\ + 3456 \\ + 0883 \\ \hline 7142 \end{array}$$

$$\textcircled{4} \quad 4548 + 2062 + 333 + 404$$

$$\begin{array}{r} 4548 \\ 2062 \\ 0333 \\ + 0404 \\ \hline 7347 \end{array}$$

Adding Large Numbers.

EXERCISE 2.2.

A. Add.

$$\begin{array}{r} 1. \quad 24425 \\ + 64351 \\ \hline 88776 \end{array}$$

$$\begin{array}{r} 3. \quad 73721 \\ 16935 \\ 5398 \end{array}$$

$$\begin{array}{r} + 215 \\ \hline 96269 \end{array}$$

$$\begin{array}{r} 2. \quad 00219 \\ 09356 \\ + 53563 \\ \hline 63138 \end{array}$$

B. Arrange in columns and add.

1. $12409 + 33098$

	T th	Th	H	T	O
	1	2	4	0	9
+	3	3	0	9	8
	4	5	5	0	7

2. $53692 + 21463 + 8452 + 939$

	T th	Th	H	T	O
	5	3	6	9	2
	2	1	4	6	3
	0	8	4	5	2
+	0	0	9	3	9
	8	4	5	4	6

3. $67836 + 1897 + 999 + 88$

	T th	Th	H	T	O
	6	7	8	3	6
	0	1	8	9	7
	0	0	9	9	9
	0	0	0	8	8
	7	0	8	2	0

* Number can be added in any order.

* When 0 is added to a number, the sum is the number itself. This is known as zero property.

eg: $349 + 0 = 349$

ESTIMATING THE SUM

Round off numbers to estimate their sum.
This will give a rough idea of their exact sum.

EXAMPLE 13 Find the estimated sum and the exact sum of 486 and 124.

$\begin{array}{r} 486 \\ + 124 \\ \hline ? \end{array}$	$\xrightarrow{\text{round off to the nearest 100}}$	$\begin{array}{r} 500 \\ + 100 \\ \hline 600 \end{array}$	$\xrightarrow{\text{estimated sum}}$	$\begin{array}{r} 486 \\ + 124 \\ \hline 610 \end{array}$	$\xleftarrow{\text{exact sum}}$
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Quick TIP

To estimate the sum, round off 2-digit numbers to the nearest 10, 3-digit numbers to the nearest 100 and 4-digit numbers to the nearest 1000.

ADDING HORIZONTALLY

EXAMPLE 14 Add 6342 and 2453 horizontally.

Step 1 Add the ones.

$$\begin{array}{ccccccc} 6 & 3 & 4 & 2 & + & 2 & 4 & 5 & 3 & \rightarrow & 5 \end{array}$$

Step 2 Add the tens.

$$\begin{array}{ccccccc} 6 & 3 & 4 & 2 & + & 2 & 4 & 5 & 3 & \rightarrow & 9 & 5 \end{array}$$

Step 3 Add the hundreds.

$$\begin{array}{ccccccc} 6 & 3 & 4 & 2 & + & 2 & 4 & 5 & 3 & \rightarrow & 7 & 9 & 5 \end{array}$$

Step 4 Add the thousands.

$$\begin{array}{ccccccc} 6 & 3 & 4 & 2 & + & 2 & 4 & 5 & 3 & \rightarrow & 8 & 7 & 9 & 5 \end{array}$$

ANS. $6342 + 2453 = 8795$



Exercise 2.3

pg-4

A. Fill in the blanks.

- $7943 + 5961 = 5961 + \underline{7943}$
- The successor of 9999 = 10000
- $7005 + 0 = \underline{7005}$
- $41052 + \underline{1} = 41053$
- $3126 + 2137 + 8139 = 8139 + \underline{2137} + 3126 = 3126 + \underline{8139} + 2137$

B. Add. Check the answer.

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

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

$$\begin{array}{r} 3. \quad \begin{array}{r} 22563 \\ + 14467 \\ \hline 37030 \end{array} \quad \begin{array}{r} 37030 \\ 22563 \\ + 14467 \\ \hline \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{r} 28816 \\ + 11059 \\ \hline 39875 \end{array} \quad \begin{array}{r} 39875 \\ 28816 \\ + 11059 \\ \hline \end{array} \end{array}$$

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

		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 to find the sum.

1. $248 + 211 = \underline{459}$ 2. $375 + 144 = \underline{519}$ 3. $157 + 346 = \underline{503}$
4. $2251 + 1480 = \underline{3731}$ 5. $3805 + 4792 = \underline{8597}$ 6. $5218 + 7117 = \underline{12335}$
7. $3415 + 1986 = \underline{5401}$ 8. $4003 + 5425 = \underline{9428}$ 9. $6256 + 2227 = \underline{8483}$

EXERCISE 2.4

A. Solve these story sums.

1. Rohit had ----- Rohit have now?

Soln:→ No. of stamps Rohit had = 2346
 No. of stamps given by his brother = + 1999
 Total no. of stamps Rohit have now = 4345

Therefore, Rohit have 4345 stamps now.

2. A school ----- bought altogether?

Soln:→ No. of Maths Activity books bought in April = 2350
 No. of Maths Activity books bought in May = 2350 + 870
 = 3220
 Total no. of books bought altogether = 2350 + 3220

$$\begin{array}{r} 2350 \\ + 3220 \\ \hline 5570 \end{array}$$

So, School bought 5570 books altogether.

3. There are ----- in the godown?

Soln:→ No. of wheat bags = 8234
 No. of rice bags = + 5478
 Total no. of bags = 13712

So, There are 13,712 bags in the godown.