

Tender Heart High School, Sec-33B, Chandigarh

Class:- V

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Subject: Mathematics

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Chapter - 2 Addition and Subtraction

Addition

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

When '0' is added to a number, the sum is the number itself.

Subtraction

Start subtracting from the ones place. Regroup if necessary. We can check subtraction by addition.

EXERCISE 2.1

A. Write in columns and find the sum.

1. $265758 + 879899$ <2> $5949761 + 7997580$

	TL	L	TH	TH	H	T	O
	2	6	5	7	5	8	
+	8	7	9	8	9	9	
	1	4	5	6	5	7	

	C	TL	L	TH	TH	H	T	O
		5	9	4	9	7	6	1
+		7	9	9	7	5	8	0
		1	3	9	4	7	3	4

B. Find the sum of the largest and the smallest 8-digit number.

Soln:→ Largest 8-digit number = 99999999
 Smallest 8-digit number = +10000000
 Sum = 109999999

C. Write in columns and find the difference.

1. $876543 - 87654$ 2. $5300527 - 123456$

Soln:-

$$\begin{array}{r} 7 \text{ } 16 \text{ } 15 \text{ } 14 \text{ } 13 \text{ } 13 \\ 8 \text{ } 7 \text{ } 6 \text{ } 5 \text{ } 4 \text{ } 3 \\ - 0 \text{ } 8 \text{ } 7 \text{ } 6 \text{ } 5 \text{ } 4 \\ \hline 7 \text{ } 8 \text{ } 8 \text{ } 8 \text{ } 8 \text{ } 9 \end{array}$$

Soln

$$\begin{array}{r} 2 \text{ } 9 \text{ } 10 \text{ } 4 \text{ } 12 \\ 5 \text{ } 3 \text{ } 0 \text{ } 0 \text{ } 5 \text{ } 2 \text{ } 7 \\ - 0 \text{ } 1 \text{ } 2 \text{ } 3 \text{ } 4 \text{ } 5 \text{ } 6 \\ \hline 5 \text{ } 1 \text{ } 7 \text{ } 7 \text{ } 0 \text{ } 7 \text{ } 1 \end{array}$$

D. Fill in the missing digits.

1.

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

2.

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

E. Solve. (HINT: Carry out addition first and then subtract.).

1. $343257 + 14068 - 159387$

$$\begin{array}{r} 343257 \\ + 014068 \\ \hline 357325 \end{array}$$

$$\begin{array}{r} 357325 \\ - 159387 \\ \hline 197938 \end{array}$$

2. $991552127 - 640554349 + 858780$

Soln:→

$$\begin{array}{r} 991552127 \\ + 000858780 \\ \hline 992410907 \end{array}$$

$$\begin{array}{r} 99\overset{1}{2}4\overset{13}{1}0\overset{10}{0}9\overset{10}{0}7 \\ - 640554349 \\ \hline 351856558 \end{array}$$

EXERCISE 2.2

Solve these story sums:-

1. In 2016, ----- the plot cost?

Soln:→ Money borrowed from a bank = ₹ 80,00,000
 Money added from saving = ₹ + 7,00,000
 Cost of the plot = ₹ 87,00,000

Ans:- The cost of the plot is ₹ 87,00,000

2. Mary built ----- the school?

Soln:→ Money spent on the construction of building = ₹ 15,26,085
 Money spent on painting = ₹ 2,54,999

Total amount spend on building = $15,26,085 + 2,54,999$

$$\begin{array}{r}
 15\,26\,085 \\
 + 02\,54\,999 \\
 \hline
 178\,1084
 \end{array}$$

Ans:→ So, Total money spent on the school building is ₹17,81,084.

Q3 In 2018, she ordered ----- in the library?

Soln:→

$$\begin{array}{rcl}
 \text{Total no. of books for school library} & = & 47,66,500 \\
 \text{No. of fiction books} & & \checkmark = -10,59,833 \\
 \text{No. of non-fiction books} & = & \underline{37\,06\,667}
 \end{array}$$

So, There are 37,06,667 non-fiction books in the school library.

Q4. Of the 47,66,500 ----- in the library?

Soln:→

$$\begin{array}{rcl}
 \text{Total no. of books in the library} & = & 47,66,500 \\
 \text{No. of books issued to the students} & = & 28,947 \\
 \text{No. of books issued to the teachers} & = & 14,033 \\
 \text{Total no. of books issued to the students and teachers both} & = & 28,947 + 14,033 \\
 & = & 42,980
 \end{array}$$

No. of books left in the school = Total books - No. of books issued.

$$\begin{aligned}
 &= 47,66,500 - 42,980 \\
 &= 47,23,520
 \end{aligned}$$

So, There are 47,23,520 books are still in the library.

Q5. In 2021, she cast off ----- in that year?

Soln:→

$$\begin{array}{r}
 \text{Total no of books in the library} = 47,66,500 \\
 \text{No. of books cast off} = - 8,93,700 \\
 \text{No of books left} = \underline{38,72,800} \\
 \text{No. of books Ordered (new)} = + 7,84,56 \\
 \hline
 39,51,256
 \end{array}$$

So, There are 39,51,256 books in the library in 2021.

Q6. There are ----- left unoccupied?

Soln:→

$$\begin{array}{r}
 \text{Total no. of shelves in the library} = \overset{3}{40},9910 \\
 \text{No. of shelves occupied} = - 38,762 \\
 \text{No. of shelves unoccupied} = \underline{01,238}
 \end{array}$$

So, There are 1238 bookshelves left unoccupied.

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EXERCISE 2.3

A. Estimate each sum to the nearest ten.

1. $128 + 231$

Soln:- $128 \approx 130$

$231 \approx 230$

Estimated sum = $130 + 230 = 360$

2. $333 + 423$

Soln:- $333 \approx 330$

$423 \approx 420$

Estimated sum = $330 + 420 = 750$

B. Estimate each sum to the nearest hundred.

1. $399 + 349$

Soln:- $399 \approx 400$

$349 \approx 300$

Estimated sum = $400 + 300 = 700$

2. $583 + 923$

Soln:- $583 \approx 600$

$923 \approx 900$

Estimated sum = $600 + 900 = 1500$

C. Estimate each sum to the nearest thousand.

1. $15585 + 34250$

Soln:- $15585 \approx 16000$

$34250 \approx 34000$

$$\begin{aligned}\text{Estimated sum} &= 16000 + 34000 \\ &= 50,000\end{aligned}$$

2. $21397 + 27824$

Soln: $\rightarrow$

$$\begin{aligned}21397 &\approx 21000 \\ 27824 &\approx 28000 \\ \text{Estimated sum} &= 49000\end{aligned}$$

D. Estimate the difference to the nearest ten.

1. $521 - 195$

$$521 \approx 520$$

$$195 \approx 200$$

$$\text{Estimated difference} = 320$$

2. $997 - 374$

$$997 \approx 1000$$

$$374 \approx 370$$

$$\begin{aligned}\text{Estimated difference} &= 1000 - 370 \\ &= 630\end{aligned}$$

E. Estimate the difference to the nearest hundred.

1. $665 - 208$

$$665 \approx 700$$

$$208 \approx 200$$

$$\begin{aligned}\text{Estimated difference} &= 700 - 200 \\ &= 500\end{aligned}$$

2. $7286 - 3985$

Soln:- $7286 \approx 7300$
 $3985 \approx 4000$

Estimated difference = $7300 - 4000$
 $= 3300$

F. Estimate the difference to the nearest thousand.

1. $45867 - 37677$

Soln:- $45867 \approx 46000$
 $37677 \approx 38000$

Estimated difference = 8000

46000
$- 38000$
<u>08000</u>

2. $57008 - 49488$

Soln:- $57008 \approx 57000$
 $49488 \approx 49000$

Estimated difference = 8000

G. Solve these story sums.

1. On Sunday, ----- nearest thousand.

Soln:- No. of men ran a marathon = $15,694 \approx 16,000$
 No. of women ran a marathon = $11,249 \approx 11,000$
 No. of (estimated) people ran a marathon
 $= 16000 + 11000$
 $= 27000$

Q 2. The cows ----- making butter?

Soln:- Total quantity of milk = $2734\text{L} \approx 3000\text{L}$
 Quantity of milk used to make butter = $1048\text{L} \approx 1000\text{L}$

Approximated quantity of milk not used for making butter = $3000 - 1000 = 2000\text{L}$

Q 3. 36,859 kg of wheat ----- in that month.

Soln:-
 Amount of wheat = $36,859\text{kg} \approx 37000\text{kg}$
 Amount of rice = $22,578\text{kg} \approx 23000\text{kg}$
 Amount of maize = $7558\text{kg} \approx 8000\text{kg}$
 Estimated production of foodgrain $\approx 68000\text{kg}$

So, There is 68,000kg of foodgrains produced in a month.