



Juhi is going to visit the Maghmela along with her father. There is a big crowd of pilgrims at the bus stand. The departure and arrival of the buses is being announced. The numbers of buses are being announced from the mike. Juhi saw the numbers written on buses. She became curious about these numbers.

Juhi - Why are these numbers there on the buses, Papa?

Papa - My dear, as we have Aadhar cards for our identity, in the same way, every bus has a number for its identity.

Juhi - Ok! means every bus has its own number. One bus has number 9807 and another has 6848 number.

Papa - Can you add these two numbers?

Juhi - Yes, just a minute, I will add and show you.

Juhi calculated -

$$\begin{array}{r} 9 \quad 8 \quad 0 \quad 7 \\ + \quad 6 \quad 8 \quad 4 \quad 8 \\ \hline 15 \end{array}$$


First, added the digits at ones place.

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

4+1



Next, added the digits at tens place. Then added tens digit to tens that is obtained by the sum of ones digits.

$$\begin{array}{r} 9 \quad 8 \quad 0 \quad 7 \\ + \quad 6 \quad 8 \quad 4 \quad 8 \\ \hline 16 \quad 5 \quad 5 \end{array}$$


Now added digits at hundreds place.

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


After this, added digits at thousands place and added the digit to thousand that is obtained by the sum of hundreds digits

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

Addend

Addend

Sum

Juhi - Papa, sum of both the numbers is 16655 (sixteen thousand six hundred fifty five).

Papa - Very good!



Do it yourself -

• $7328 + 6025$

• $8761 + 5908$



Juhi - Papa, next week will you go to Delhi by bus to visit Mamaji?

Papa - No, I will go by train.

Juhi - Do the trains also have numbers?

Papa - Yes dear, all the trains have five digit numbers.

Juhi - What is the number of your train?

Papa - I will go by Prayagraj Express and its number is 12417 and I will return by Purushottam Express, its number is 12802.

Juhi - Papa, shall I add the numbers of both the trains.

Papa - Yes, sure.

Juhi added -

$$\begin{array}{r} 1 \quad 2 \quad 4 \quad 1 \quad 7 \\ + 1 \quad 2 \quad 8 \quad 0 \quad 2 \\ \hline 9 \end{array}$$



$$\begin{array}{r} 1 \quad 2 \quad 4 \quad 1 \quad 7 \\ + 1 \quad 2 \quad 8 \quad 0 \quad 2 \\ \hline 1 \quad 9 \end{array}$$



$$\begin{array}{r} 1 \quad 2 \quad 4 \quad 1 \quad 7 \\ + 1 \quad 2 \quad 8 \quad 0 \quad 2 \\ \hline 1 \quad 2 \quad 1 \quad 9 \end{array}$$



$$\begin{array}{r} 1 \quad 2 \quad 4 \quad 1 \quad 7 \\ + 1 \quad 2 \quad 8 \quad 0 \quad 2 \\ \hline 4+1 \quad 2 \quad 1 \quad 9 \end{array}$$



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

First, added digits at ones place.

and then, added digits at tens place.

after this, added digits at hundreds place.

Now, added digits at thousands place. The thousands digit obtained by the sum of hundreds is added to thousand.

At last, added the digits at thousands place.





Do it yourself -

● $85063 + 90054$

● $14865 + 90406$



Think -

Can you add the numbers of 6-digits in the same manner?

$$\begin{array}{r} 856394 \\ + 390685 \\ \hline \end{array}$$

$$\begin{array}{r} 650840 \\ + 539978 \\ \hline \end{array}$$

Properties of Addition

Juhi is playing a game with her brother Manish by adding the numbers obtained by throwing a dice twice.

Juhi threw dice, the digits came out are 6 and 4, $6 + 4 = 10$

Manish threw the dice, the digits came out are 4 and 6, $4 + 6 = 10$

Juhi started thinking, the sum of both the numbers $6 + 4$ and $4 + 6$ is 10.

Manish said, "Didi, the sum of our numbers is the same".

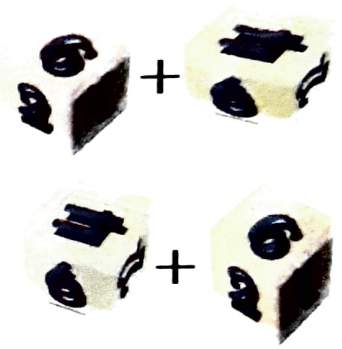
In the same way they both added some more numbers by changing their orders -

$5 + 3 = \dots\dots\dots$

$8 + 5 = \dots\dots\dots$

$3 + 5 = \dots\dots\dots$

$5 + 8 = \dots\dots\dots$



Do it yourself -

$10 + 15 = \dots\dots\dots$

$20 + 18 + 12 = \dots\dots\dots$

$15 + 10 = \dots\dots\dots$

$18 + 20 + 12 = \dots\dots\dots$

$12 + 18 + 20 = \dots\dots\dots$

Is there any difference in the sums when you add the same numbers by changing their orders?

The sum of two numbers remain the same even if we change the order of numbers.



Juhi - Papa, today we learnt that the sum of the numbers does not change if we change their order.

Papa - Very good! Now you both add zero to any number and observe.
Juhi and Manish added zero to different numbers-

$$8 + 0 = 8$$

$$15 + 0 = 15$$

$$0 + 35 = 35$$

They both exclaimed with surprise - Wow! The number remains the same when we add zero to it.



Do it yourself -

$$42 + 0 = \dots\dots\dots$$

$$65 + 0 = \dots\dots\dots$$

$$0 + 28 = \dots\dots\dots$$

The sum of zero and any number is always the number itself.

Guess to get the answer -

Radha has 53 laddus and Rakesh has 38 laddus. Guess and tell, how many laddus they both have in all?

number 53 is close to 50

number 38 is close to 40

Estimated sum = $50 + 40 = 90$

Actual sum = $53 + 38 = 91$



Do it yourself -

Guess and tell -

● $76 + 69$

● $57 + 63$

● $102 + 98$

 Giving different numbers, the teacher should make the students frame and solve the word problems of addition and practise them.

Word Problem

Example 1 : There are 48223 sacks of rice and 19428 sacks of wheat in a godown. How many total sacks are there in the godown?

Look : Given-

Number of sacks of rice = 48223

Number of sacks of wheat = 19428

We have to find out- The total number of sacks
= no. of sacks of rice + no. of sacks of wheat

$$\begin{array}{r} 48223 \\ + 19428 \\ \hline 67651 \end{array}$$

To solve the word problems, first we see, what things are given then we see what is to be found out.

Hence, total 67651 sacks are there in the godown.

Example 2 : Zaheer has rupees 203482 whereas Manoj has 54897 more rupees than Zaheer. How many rupees are there with Manoj in all?

Look : Given -

The amount with Zaheer = 203482 rupees

The amount Manoj has more than Zaheer = 54897 rupees

We have to find out- Total amount with Manoj

Total amount with Manoj = amount with Zaheer + amount more than Zaheer's amount

$$\begin{array}{r} 203482 \text{ rupees} \\ + 54897 \text{ rupees} \\ \hline 258379 \text{ rupees} \end{array}$$

Hence, Manoj has total rupees 258379 .



Do it yourself -

- Rahul bought clothes for rupees 4590 , grains for rupees 3150 and television for rupees 14660 . How many rupees did he spend in all?



We have learnt

- The sum of the numbers does not change even if we change the order of the numbers.
- Sum of any number and zero is always the number itself.
- Adding numbers upto 6-digits.
- To frame word problems with the given numbers.



1. Add -

$$\begin{array}{r} (a) \quad 45231 \\ + 23549 \\ \hline \end{array}$$

$$\begin{array}{r} (b) \quad 44368 \\ 13630 \\ + 27432 \\ \hline \end{array}$$

$$\begin{array}{r} (c) \quad 942751 \\ 46506 \\ + 8977 \\ \hline \end{array}$$

(d) $437241 + 408976 + 75462$

(e) Three lakh fifty two thousand seventy two, two lakh eleven thousand three hundred nine and thirteen thousand two.

2. Fill the boxes with the correct digits -

$$\begin{array}{r} (a) \quad \bigcirc \ 5 \ 1 \ 0 \ 3 \\ 4 \ \bigcirc \ 7 \ \bigcirc \ 0 \\ + 5 \ 4 \ 9 \ 8 \ \bigcirc \\ \hline 1 \ 3 \ 8 \ \bigcirc \ \bigcirc \ 1 \end{array}$$

$$\begin{array}{r} (b) \quad 6 \ 1 \ 3 \ \bigcirc \ 6 \ 7 \\ - 0 \ 1 \ 5 \ 2 \ 0 \ \bigcirc \\ + 3 \ 8 \ \bigcirc \ 9 \ 9 \ 0 \\ \hline \bigcirc \ 0 \ 1 \ 0 \ 6 \ \bigcirc \ 3 \end{array}$$

3. Find the sum of the greatest 5-digit number and the smallest 6-digit number.
4. There are 23670 males, 22890 females and 14072 children in a Nyaya Panchayat. What is the total population of the Nyaya Panchayat?
5. 81790 girls and 75896 boys appeared for an examination. How many total students appeared for the examination?
6. In a year, 52045 kilograms wheat was produced in a village. If in the next year, 27251 kilograms more wheat is produced, how much wheat is produced in both the years?
7. Prakash bought Iron rods for ₹ 21430, cement for ₹ 12560 and grit for ₹ 11437 to construct his house. How much total money did he spend?
8. Find the number which is 21430 more than the sum of the numbers 2453 and 349552.
9. Find the number which is 15220 more than 5780.
10. Guess the number and shade the circle with the correct answer-
 - (a) $5000 + 4000 =$
 - (i) 4000 ☐
 - (ii) 5000 ☐
 - (iii) 9000 ☐
 - (iv) 12000 ☐
 - (b) $400 + 500 + 100 =$
 - (i) 600 ☐
 - (ii) 1200 ☐
 - (iii) 800 ☐
 - (iv) 1000 ☐
11. Frame a word problem for the sum of numbers 123 and 427.



How much have we learnt -

1. How much will it be -
 - (a) by adding 1 to 9999.
 - (b) by subtracting 1 from 100000.
2. Tell -
 - (a) The greatest and the smallest number of four digits.
 - (b) The greatest number of five digits and the smallest of six digits.
3. Write the following numbers in words -
 - (a) 10001 (b) 40002 (c) 250508
 - (d) 9999 (e) 15979 (f) 768562
4. Write the following numbers in figures -
 - (a) Nine thousand five.
 - (b) Thirty seven thousand twenty one.
 - (c) Three lakh twenty three thousand two hundred one.
 - (d) Six lakh three thousand twelve.
5. Extend the given series -
 - (a) 2901, 3901, 4901,,,,
 - (b) 51219, 52319, 53419,,,,
6. Write the place value of 9's in the following numbers -
 - (a) 32926 (b) 65298 (c) 94004 (d) 934068
7. From a district, eighty five thousand three hundred sixty nine rupees were collected in flood relief fund. Only twenty nine thousand four hundred six rupees were collected from the other district. How much money was collected from both the districts?



8. Write the correct number in the boxes -

- (a) hundreds = 1 thousand (b) tens = 1 thousand
(c) thousands = 1 lakh (d) ones = 1 lakh
(e) 1000 hundreds = lakh (f) ten thousand = tens

9. Put the correct sign (<, =, >) -

- (a) 3828 3828 (b) 69349 69349
(c) 6001 60010 (d) 39517 38517

10. With the numbers 3, 5, 8, 7 and 0 -

- (a) form the greatest number.
(b) form the smallest number.
(c) find out the sum of the greatest and the smallest number that are formed.
(d) What will be the place values of 3 in the greatest and the smallest number which are formed?
(e) What will be the sum of the place values of 5 in the greatest and the smallest number which are formed?

11. Tell the number that is-

- (a) one less than one lakh (a) one more than nine thousand nine hundred ninety nine

12. Find the sum of the given number and write in words -

- (a) 34755 + 45230 (b) 37390 + 30049 (c) 65311 + 13999
(d) 67699 + 15489 (e) 21490 + 45369 + 64679

13. Add the smallest number of six digits to the greatest number of five digits, and write their sum in words.

14. The details of the votes obtained by the different candidates in a Legislative Assembly Election are given below-

First - 45673, Second - 39188, Third - 8739

Fourth - 4867, Fifth - 987, Sixth - 243

If 876 votes were found invalid, how many votes did the voters cast in voting?

