



The development work has been done in Jagatpur village. The number of bricks used in the construction of buildings, roads, drainage etc. are as follow—

Constructed Work	Number of Bricks Used
● Brick road from main road to school	465690
● School building	68460
● Panchayat Bhawan	27245
● Toilets	4678
● Library	17885
● Drainage	24968

Look at the chart and answer —

- How many total bricks were used in the development of village ?
- How many bricks in all were used in the construction of brick road and drainage?



- How many more bricks were used in the construction of brick road than drainage?
- Find the total number of bricks used in the construction of school and library?
- Find the total number of bricks used in the construction of school, Panchayat Bhavan and drainage? How much less is this number than the bricks used in the brick road.

Let's revise –

- The sum of numbers does not change even if we change the order of the numbers.

$$100 + 200 = 200 + 100 = 300$$

$$1500 + 500 = 500 + 1500 = 2000$$

- The sum of zero and a number is always the number itself.



$$35 + 0 = 35$$

$$0 + 154 = 154$$

Activity – Which is greater ?

Make two numbers of six digits each and add both the numbers-

Sahil formed the number – 5 6 0 8 1 9 and 6 5 8 9 1 0

$$\begin{array}{r} \text{added} \quad - \quad 5\ 6\ 0\ 8\ 1\ 9 \\ + 6\ 5\ 8\ 9\ 1\ 0 \\ \hline 1\ 2\ 1\ 9\ 7\ 2\ 9 \end{array}$$

Form a new number of the same digits by using the digits of the sum of added numbers.

Sahil formed a new number –

9 1 2 1 9 2 7

Now subtract the smaller number from the greater number–

$$\begin{array}{r} 9\ 1\ 2\ 1\ 9\ 2\ 7 \\ - 1\ 2\ 1\ 9\ 7\ 2\ 9 \\ \hline 7\ 9\ 0\ 2\ 1\ 9\ 8 \end{array}$$

Now compare the obtained number with the numbers formed by your friends. Whose number is greater ?



Look and Tell :

9 1 0 7 9 3 6 and 5 6 3 1 4 2 8

How many digits are there in these numbers ?

Let's add them—

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

sum = 1 4 7 3 9 3 6 4

Now Let's subtract them—

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

In the same way, we also add eight digit numbers —

Let's see—

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

Let's see—

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



Example 1 : What will be the sum of 6730591 and 5392438 ?

Look :

	T.L	L	T.Th	Th	H	T	O
	6	7	3	0	5	9	1
+	5	3	9	2	4	3	8
	1 2	1	2	3	0	2	9

Hence, the sum of 6730591 and 5392438 is 12123029



Do it yourself— ● 2730973

3032187

+ 2164217

● 432469 + 2876430 + 7096213

Example 2 : Subtract 5823968 from 9432167.

Look :

	T.L	L	T.Th	Th	H	T	O
	9	4	3	2	1	6	7
–	5	8	2	3	9	6	8
	3	6	0	8	1	9	9

Hence, $9432167 - 5823968 = 3608199$



Do it yourself— ● 3940381

– 2874593

● 7648920 – 911109



Example 3 : A factory manufactured 8762357 pens in August, 7531625 pens in September and 8351365 pens in October. How many total pens were manufactured in these three months ?

Solution :

$$\text{Number of pens manufactured in August} = 8762357$$

$$\text{Number of pens manufactured in September} = 7531625$$

$$\text{Number of pens manufactured in October} = + 8351365$$

$$\text{Total pens} = \underline{\underline{24645347}}$$

Total 24645347 pens were manufactured in three months.

Example 4 : Find the sum of the greatest and the smallest number of seven digits. Now find the difference between the sum obtained and the greatest number of six digits.

Look :

$$\text{The greatest number of seven digits} = 9999999$$

$$\text{The smallest number of seven digits} = + 1000000$$

$$\text{sum of both the numbers} = \underline{\underline{10999999}}$$

The sum of the greatest and the smallest number of seven digits numbers

$$= 10999999$$

$$\text{The greatest number of six digits} = - 999999$$

$$\text{Difference} = \underline{\underline{10000000}}$$



Making word problems

In a primary school 13200 bricks were used for constructing two classrooms, 1000 bricks for a toilet and 2000 bricks for a kitchen.

We can form following types of word problems on the basis of the information given above—

- How many bricks in total were used in the construction of two classrooms, a toilet and a kitchen ?
- How many more bricks were used in the construction of the kitchen than in the toilet?
- How many bricks in total were used in the construction of both the kitchen and the toilet ?
- How many more bricks were used in the construction of two classrooms than in a toilet ?



Do it yourself—

* Make word problem with the help of giving numbers:-

- 500,900.
- 1200,1800

We have learnt

- Addition and subtraction of eight digit numbers.
- Formation of word problems of addition and subtraction on the basis of any story or incident.
- Formation of word problems based on mathematical references.

The teacher should make the students practise the formation and solving of word problems on the basis of references, incidents and information.



Exercise



1. Solve the following –

$$\begin{array}{r} (a) \quad 435176 \\ 6910028 \\ + 2174206 \\ \hline \hline \end{array}$$

$$\begin{array}{r} (b) \quad 5798243 \\ 124573 \\ + 607854 \\ \hline \hline \end{array}$$

$$\begin{array}{r} (c) \quad 4934721 \\ 4146875 \\ + 2000045 \\ \hline \hline \end{array}$$

$$\begin{array}{r} (d) \quad 9010101 \\ - 1532657 \\ \hline \hline \end{array}$$

$$\begin{array}{r} (e) \quad 8270648 \\ - 7785587 \\ \hline \hline \end{array}$$

$$\begin{array}{r} (f) \quad 5846321 \\ - 2785432 \\ \hline \hline \end{array}$$

$$(g) \quad 4100308 + 4003 + 500054 + 20003$$

$$(h) \quad 7861194 - 2340712$$

2. The difference of two numbers is 99673. The smaller number is 362781. The greater number will be –

$$(a) \quad 462454 \quad (b) \quad 263108 \quad (c) \quad 336892 \quad (d) \quad 562454$$

3. Rajesh had rupees fifteen lakh. He spent ₹ 846000 to buy a piece of land and ₹ 259695 to construct a house. How many rupees were left with him ?

4. Find the difference between the greatest and the smallest number of seven digits. Now add the greatest number of six digits to the difference obtained ?

5. The sum of two numbers is 8693201. One number is 3846413, find the other number ?

6. Out of 278472 students appeared for an examination, 218659 students were passed. Find the number of students failed.

7. In a godown there are 506538 sacks of rice, 2468136 sacks of wheat and 5432451 sacks of sugar. Find the total number of sacks in the godown.

