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Add and Subtract Multi-Digit Whole Numbers - Guided Lesson
Explanation:**Explanation to #1**

If result is more than nine, then carry over the digit at the tens place of the result to the tens place of the question.

$$\begin{array}{r} 5,197 \\ + 6,111 \\ \hline 11,308 \end{array}$$

First add $7 + 1$ at the ones place which comes 8.

Then add $9 + 1$ at the tens place which comes 10.

Put 0 at the tens place and carry 1 on the hundred place, then $1 + 1 + 1$ at the hundreds place which comes 3.

Now add $5 + 6$ at the thousands place which comes 11.

Answer is: 11,308.

Step 1b) First we look what is being asked.

Subtract two given numbers.

b) 32,74,412

$$\begin{array}{r} 32,74,412 \\ - 57,247 \\ \hline \end{array}$$

Step 2b) First Subtract $2 - 7$ at the ones place.

We end up borrowing from the tens column that becomes $12 - 7$.

Then $0 - 4$ at the tens place which comes 6 by borrowing from the 4 that become $10 - 4$.

Now 4 become 3 as because we gave 1 to 1. Then $3 - 2$ on hundreds place which comes 1.



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then subtract 4 - 7 on thousands place which comes 7 by borrowing from the 7 that become 14 - 7.

Now subtract 7 become 6 as because we gave 1 to the 4. That become 7 - 5 which comes 2.

$$\begin{array}{r} 32,74,412 \\ - \quad 57,247 \\ \hline 32,17,165 \end{array}$$

Explanation to #2

Step 1a) a) 299,9_2

$$\begin{array}{r} + \quad 47,203 \\ \hline 347,135 \end{array}$$

Step 2a) One of the numbers is missing in problem. Using the answer and the other number, reverse the operations—changing addition to subtraction and subtraction to addition—to find the missing number.

Step 3a) 347,135

$$\begin{array}{r} - \quad 47,203 \\ \hline 299,932 \end{array}$$

Answer will be 3.

Step 1b) 349,713

$$\begin{array}{r} - \quad 119,81 \\ \hline 469,534 \end{array}$$

Step 2b) One of the numbers is missing in problem. Using the answer and the other number, reverse the operations—changing addition to subtraction and subtraction to addition—to find the missing number.



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$$\begin{array}{r} \text{Step 3b)} \quad 469,534 \\ - \quad 349,713 \\ \hline 119,821 \end{array}$$

Answer will be 2.

Explanation to #3

a) To join two or more numbers (or quantities) to get one number we add them(called the sum or total).

If result is more than nine, then carry over the digit at the tens place of the result to the tens place of the question.

$$\begin{array}{r} 8,148 \\ + \quad 4,247 \\ \hline 12,395 \end{array}$$

First add $8 + 7$ at the ones place which comes 15.

Put 5 at the ones place and carry 1 on the tens place, then $4 + 4 + 1$ at the tens place which comes 9.

Then add $1 + 2$ on hundred place which comes 3.

Now add $8 + 4$ on thousands place which comes 12.

Answer is: 12,395.

$$\begin{array}{r} \text{b)} \quad 58,30,412 \\ - \quad 94,222 \\ \hline \end{array}$$

Step 2b) First Subtract $2 - 2$ at the ones place which comes 0.

Then $1 - 2$ at the tens place which comes 11 by borrowing from the 4 that become $11 - 2$.



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Then $4 - 2$ on hundreds place which comes 2.

Then subtract $0 - 4$ on thousands place which becomes 6 by borrowing from the 3 that become $10 - 4$.

3 becomes 2 because we gave 1 to the 0.

3 becomes 12 by borrowing from 8.

That become $12 - 9$ which comes 3 on ten hundred place.

$$\begin{array}{r} 58,30,412 \\ - \quad 94,222 \\ \hline 57,36,190 \end{array}$$

Answer is: 57,36,190

