ADDITION AND SUBTRACTION PROBLEMS

While solving the word problems, we analyze the problem and see if its addition or subtraction. If the problem suggests that we have to gather or sum up the data given, we do '**addition**' and where we have to find out what's left behind or find the difference, we do '*subtraction*'.

EXAMPLE FOR ADDITION

There were 4320 bottles of juice in a shop. The shopkeeper sells 2398 bottles of juice. How many bottles are left in the shop?

SOLUTION:

Here we have to carry out subtraction because we have to find out the number of bottles **left** in the shop.

$$
\begin{array}{r}
{}^{4}\;{}^{12} \\
4\;\cancel{3}\;2\;9 \\
-\;2\;3\;9\;8 \\
\hline
2\;1\;3\;1 \\
\hline
\end{array}
$$

we will do regrouping since 2 is less than 9.

So, **2131** bottles of juice were left in the shop.

EXAMPLE FOR SUBTRACTION

There were 1209 bottles of juice and 3420 bottles of milk in the shop. How many bottles of juice and milk were there in the shop altogether?

SOLUTION:

Here we will carry our addition because we have to find the **total** number of bottles of juices and milk in the shop.

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

So, the total numbers of bottles of juice and milk were **4629**.