ADDITION

(Using expanded form)

We can also add numbers using their **expanded notation** form. We expand each number and then add their common place value numbers. We do addition using expanded form in the following way.

For example: Solve 567 + 234

We will first write the numbers in their expanded form

$$
\begin{array}{r}
5\ 6\ 4 \\
+\ 2\ 3\ 4 \\
\hline
\end{array}
$$

H	T	U
500 + 60 + 4
200 + 30 + 4

700 + 90 + 8

700 + 90 + 9 = **798**

Now we will add the units, tens and hundreds together vertically.

Now we will add them to get the sum

So, 567 + 234 = **798**

When there is **regrouping** involved in addition, we add in the following way.

For example: Solve 238 + 423

We will first write the numbers in their expanded form

$$
\begin{array}{r}
2\ 3\ 8 \\
+\ 4\ 2\ 3 \\
\hline
\end{array}
$$

H	T	U
200 + 30 + 8
400 + 20 + 3

600 + 50 + 11

600 + 50 + 10 + 1

600 + 60 + 1 = **661**

Now we will add the units, tens and hundreds vertically

We know that 11 = 1 ten + 1 unit. So we will REGROUP!

So, 238 + 423 = **661**