

PARTITIONING AND DECOMPOSITION

Partitioning and decomposition (tens and units)

Partition the number into tens and units.

$$89 \longrightarrow \boxed{80} + \boxed{9}$$

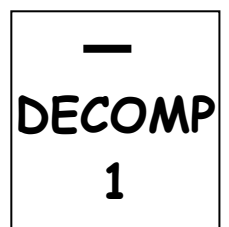
Subtract the units from the units and then the tens from the tens.

(i) without exchange

$$\begin{array}{r} 89 \\ - 57 \\ \hline \end{array} \longrightarrow \begin{array}{r} 80 + 9 \\ - 50 + 7 \\ \hline 30 + 2 \end{array} = 32$$

(ii) with exchange

$$\begin{array}{r} 71 \\ - 46 \\ \hline \end{array} \longrightarrow \begin{array}{r} 70 + 1 \\ - 40 + 6 \\ \hline \end{array} \longrightarrow \begin{array}{r} 60 \\ 70 + 11 \\ - 40 + 6 \\ \hline 20 + 5 \end{array} = 25$$



PARTITIONING AND DECOMPOSITION

Partitioning and decomposition (hundred, tens and units)

$$754 - \underline{286} \rightarrow \begin{array}{r} 700 + 50 + 4 \\ - \underline{200 + 80 + 6} \end{array}$$



$$\begin{array}{r} 00 + \overset{40}{\cancel{50}} + 14 \\ - \underline{00 + 80 + 6} \end{array}$$

(adjust from T to U)

$$\begin{array}{r} \overset{600}{\cancel{700}} + \overset{40}{\cancel{50}} + 14 \\ - \underline{00 + 80 + 6} \\ 400 + 60 + 8 = 468 \end{array}$$

(adjust from H to T)



This is what your working will look like:

$$\begin{array}{r} 00 + 0 + 14 \\ - \underline{00 + 0 + 6} \\ 400 + 60 + 8 = 468 \end{array}$$

The stages above lead to this method:

$$754 - 286 = \begin{array}{r} \\ 7 4 \\ - \underline{2 6} \\ \underline{4 8} \end{array}$$

