

Split Strategy

Version 1

When adding large numbers in our heads, it can be easier to split one of the numbers into parts and add each part separately.

$$57 + 46 \begin{array}{l} \nearrow \boxed{40} \\ \searrow \boxed{6} \end{array} \rightarrow 57 + 40 = 97 \rightarrow 97 + 6 = 103$$

Version 2

Here is another way to use the split strategy.

$$\begin{aligned} 42 + 32 &= (4 \text{ tens} + 3 \text{ tens}) + (2 \text{ ones} + 2 \text{ ones}) \\ &= 7 \text{ tens} + 4 \text{ ones} \\ &= 74 \end{aligned}$$