

Step 1: Break apart each number into its tenths and ones places.  
 Step 2: Add tenths places together.  
 Step 3: Add ones places together.  
 Step 4: Add the tenths and ones places back together.

$$\begin{array}{r}
 61 + 24 \\
 60 + 1 \quad 20 + 4 \\
 60 + 20 = 80 \\
 1 + 4 = 5 \\
 80 + 5 = 85
 \end{array}$$

Break Apart

Step 1: Select two different symbols to represent the tenths and ones places.  
 Step 2: Using the first symbol, draw the amount of tens there are for each number.  
 Step 3: Using the second symbol, draw the amount of ones there are for each number.  
 Step: Count by tens and then ones to find the answer.

$$\begin{array}{r}
 25 \quad + \quad 21 \\
 \text{OO} \text{xxxx} \quad \text{OOx} \\
 \text{O} \quad \text{O} \quad \text{O} \quad \text{O} \\
 10 \quad 20 \quad 30 \quad 40 \\
 \text{x} \quad \text{x} \quad \text{x} \quad \text{x} \quad \text{x} \quad \text{x} \\
 41 \quad 42 \quad 43 \quad 44 \quad 45 \quad 46
 \end{array}$$

Draw a Picture

Step 1: Line up the problem vertically based on place value.  
 Step 2: Add the ones place, regrouping if necessary (putting the tenths value in the tenths place).  
 Step 3: Add the tenths place.

$$\begin{array}{r}
 1 \\
 43 \\
 + 17 \\
 \hline
 60
 \end{array}$$

Algorithm

Addition Strategies

Vertical

Step 1: Line up the problem vertically based on place value.  
 Step 2: Add the ones place.  
 Step 3: Add the tenths place and line up the answer vertically with the answer from step 3.  
 Step 4: Add vertically.

$$\begin{array}{r}
 58 \\
 + 26 \\
 \hline
 14 \\
 + 70 \\
 \hline
 84
 \end{array}$$

Number Line

Step 1: Break apart the second number into its tenths and ones places.  
 Step 2: Draw a number line with the first number as your starting point.  
 Step 3: Jump however many tens in the second number.  
 Step 4: Jump however many ones in the second number.

$$\begin{array}{r}
 37 + 12 \\
 37 + 10 + 2 \\
 \hline
 37 \quad \quad \quad \rightarrow \quad 47 \rightarrow 48 \rightarrow 49 \\
 \quad \quad \quad \quad \quad \quad \quad 10 \quad \quad \quad 1 \quad \quad 1
 \end{array}$$