

Partial Products Method

It's a LOT like Distributive... just in a list format!

$$\begin{array}{r}
 19 \longrightarrow (10 + 9) \\
 \times 25 \longrightarrow (20 + 5) \\
 \hline
 + \quad 200 = \underline{10} \times \underline{20} \quad \text{Down} \begin{array}{l} (10 + 9) \\ \downarrow \\ (20 + 5) \end{array} \\
 + \quad 45 = \underline{9} \times \underline{5} \quad \text{Down} \begin{array}{l} (10 + 9) \\ \downarrow \\ (20 + 5) \end{array} \\
 + \quad 50 = \underline{10} \times \underline{5} \quad \text{Criss} \begin{array}{l} (10 + 9) \\ \swarrow \searrow \\ (20 + 5) \end{array} \\
 + \quad \underline{180} = \underline{9} \times \underline{20} \quad \text{Cross} \begin{array}{l} (10 + 9) \\ \swarrow \searrow \\ (20 + 5) \end{array} \\
 \hline
 475
 \end{array}$$

Step 1:
Separate the numbers
into tens and ones

Step 2:
Multiply each part -
DOWN, DOWN,
CRISS-CROSS!

Step 3:
Add the results!