

## TWO-DIGIT MULTIPLICATION EXPANDED ALGORITHM

Illustrate and solve the following problems using the expanded algorithm for multiplication. If you wish, draw the "box model" to help you.

Example:

$$\begin{array}{r} 59 = 50 + 9 \\ \underline{\times 73 = 70 + 3} \\ 3 \times 9 = 27 \\ 3 \times 50 = 150 \\ 70 \times 9 = 630 \\ 70 \times 50 = \underline{3500} \\ \mathbf{4307} \end{array}$$

1)  $\begin{array}{r} 26 = 20 + 6 \\ \underline{\times 15 = 10 + 5} \end{array}$

2)  $\begin{array}{r} 31 = 30 + 1 \\ \underline{\times 68 = 60 + 8} \end{array}$

3)  $\begin{array}{r} 85 \\ \underline{\times 67} \end{array}$

4)  $\begin{array}{r} 74 \\ \underline{\times 29} \end{array}$

5)  $\begin{array}{r} 46 \\ \underline{\times 37} \end{array}$

6)  $\begin{array}{r} 38 \\ \underline{\times 93} \end{array}$