

## ONE-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:

$$\begin{array}{r} 59 = 50 + 9 \\ \underline{x \quad 3} = \quad \underline{\quad 3} \\ \phantom{3} \times 9 = \phantom{0} 27 \\ \phantom{3} \times 50 = \underline{\phantom{0} 150} \\ \phantom{3} \phantom{\times} \phantom{0} = \phantom{0} 177 \end{array}$$

1)  $\begin{array}{r} 24 = 20 + 4 \\ \underline{x \quad 5} = \quad \underline{\quad 5} \end{array}$

2)  $\begin{array}{r} 37 = 30 + 7 \\ \underline{x \quad 8} = \quad \underline{\quad 8} \end{array}$

3)  $\begin{array}{r} 83 \\ \underline{x \quad 7} \end{array}$

4)  $\begin{array}{r} 64 \\ \underline{x \quad 9} \end{array}$

5)  $\begin{array}{r} 49 \\ \underline{x \quad 3} \end{array}$

6)  $\begin{array}{r} 35 \\ \underline{x \quad 6} \end{array}$