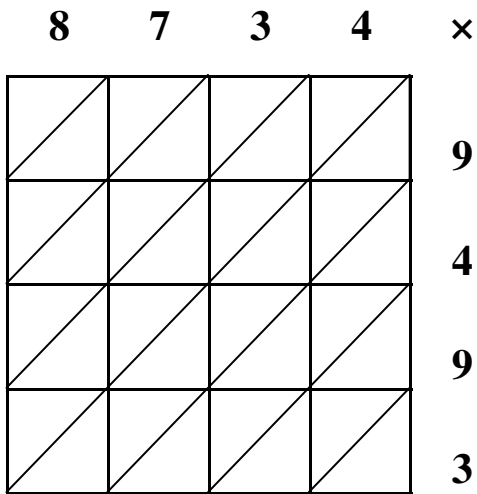
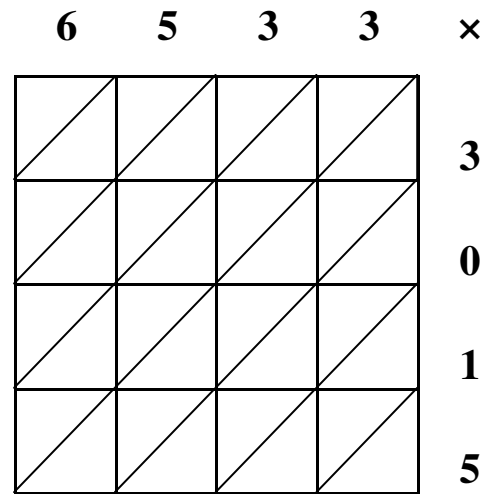


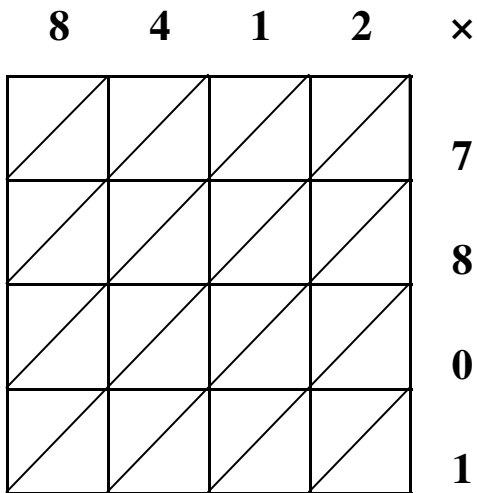
Lattice Multiplication (L)



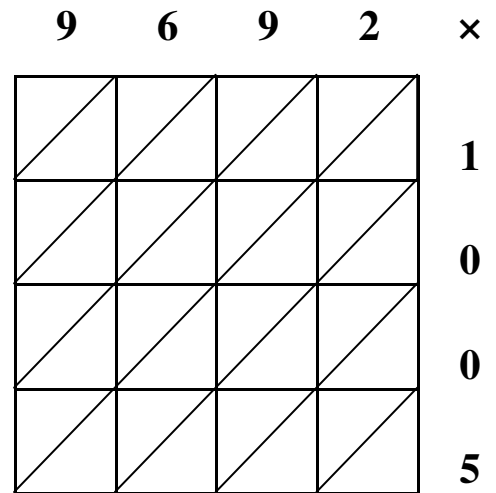
$$8734 \times 9493$$



$$6533 \times 3015$$



$$8412 \times 7801$$



$$9692 \times 1005$$

Lattice Multiplication (L) Answers

$$\begin{array}{r}
 \mathbf{8} \quad \mathbf{7} \quad \mathbf{3} \quad \mathbf{4} \quad \times \\
 \begin{array}{|c|c|c|c|}
 \hline
 7 & 6 & 2 & 3 \\
 \hline
 2 & 3 & 7 & 6 \\
 \hline
 3 & 2 & 1 & 1 \\
 \hline
 2 & 8 & 2 & 6 \\
 \hline
 7 & 6 & 2 & 3 \\
 \hline
 2 & 3 & 7 & 6 \\
 \hline
 2 & 2 & 0 & 1 \\
 \hline
 4 & 1 & 9 & 2 \\
 \hline
 \end{array} \\
 \begin{array}{r}
 1 \quad 8 \quad \mathbf{9} \\
 1 \quad 2 \quad \mathbf{4} \\
 3 \quad 9 \quad \mathbf{9} \\
 2 \quad 1 \quad \mathbf{3} \\
 \hline
 1 \quad 8 \quad 6 \quad 2 \\
 \hline
 1 \quad 1 \\
 \hline
 \mathbf{8734} \quad \times \quad \mathbf{9493} \\
 \hline
 \mathbf{82,911,862}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \mathbf{6} \quad \mathbf{5} \quad \mathbf{3} \quad \mathbf{3} \quad \times \\
 \begin{array}{|c|c|c|c|}
 \hline
 1 & 1 & 0 & 0 \\
 \hline
 8 & 5 & 9 & 9 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 6 & 5 & 3 & 3 \\
 \hline
 3 & 2 & 1 & 1 \\
 \hline
 0 & 5 & 5 & 5 \\
 \hline
 \end{array} \\
 \begin{array}{r}
 0 \quad 1 \quad \mathbf{3} \\
 0 \quad 9 \quad \mathbf{0} \\
 1 \quad 6 \quad \mathbf{1} \\
 1 \quad 9 \quad \mathbf{5} \\
 \hline
 0 \quad 0 \\
 \hline
 \mathbf{6533} \quad \times \quad \mathbf{3015} \\
 \hline
 \mathbf{19,696,995}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \mathbf{8} \quad \mathbf{4} \quad \mathbf{1} \quad \mathbf{2} \quad \times \\
 \begin{array}{|c|c|c|c|}
 \hline
 5 & 2 & 0 & 1 \\
 \hline
 6 & 8 & 7 & 4 \\
 \hline
 6 & 3 & 0 & 1 \\
 \hline
 4 & 2 & 8 & 6 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 8 & 4 & 1 & 2 \\
 \hline
 \end{array} \\
 \begin{array}{r}
 1 \quad 6 \quad \mathbf{7} \\
 1 \quad 5 \quad \mathbf{8} \\
 1 \quad 6 \quad \mathbf{0} \\
 2 \quad 2 \quad \mathbf{1} \\
 \hline
 2 \quad 0 \quad 1 \quad 2 \\
 \hline
 1 \quad 0 \\
 \hline
 \mathbf{8412} \quad \times \quad \mathbf{7801} \\
 \hline
 \mathbf{65,622,012}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \mathbf{9} \quad \mathbf{6} \quad \mathbf{9} \quad \mathbf{2} \quad \times \\
 \begin{array}{|c|c|c|c|}
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 9 & 6 & 9 & 2 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 0 & 0 & 0 & 0 \\
 \hline
 4 & 3 & 4 & 1 \\
 \hline
 5 & 0 & 5 & 0 \\
 \hline
 \end{array} \\
 \begin{array}{r}
 0 \quad 0 \quad \mathbf{1} \\
 0 \quad 9 \quad \mathbf{0} \\
 1 \quad 7 \quad \mathbf{0} \\
 1 \quad 4 \quad \mathbf{5} \\
 \hline
 0 \quad 0 \\
 \hline
 \mathbf{9692} \quad \times \quad \mathbf{1005} \\
 \hline
 \mathbf{9,740,460}
 \end{array}
 \end{array}$$