

# Large Multiplication -

Shortcut  
(algorithm)

example: 
$$\begin{array}{r} 22 \\ \times 53 \\ \hline \end{array}$$

1. Multiply the top number by the digit in the ones place on the bottom number.

$$\begin{array}{r} 22 \\ \times 5\textcircled{3} \\ \hline 66 \end{array}$$

2. Cross off the digit in the ones place & put a zero placeholder. Now, multiply the top number by the digit in the tens place on the bottom number.

$$\begin{array}{r} 22 \\ \times \textcircled{5} \cancel{3} \\ \hline 66 \\ + 110\boxed{0} \leftarrow \text{zero place holder} \\ \hline \end{array}$$

3. Add

$$\begin{array}{r} 66 \\ + 1100 \\ \hline 1,166 \end{array}$$