

MULTIPLICATION

There are many different methods for solving. Here are a few we've talked about:

Method 1: Break apart

78×32

Step 1: $78 \times 30 = 78 \times 3 \times 10$

$$\begin{array}{r} 1 \\ 3 \times 10 \end{array}$$

$$234 \times 10 = 2,340 \quad \text{Step 3:}$$

$$\begin{array}{r} \text{Step 2: } 78 \times 2 = 156 \longrightarrow + 156 \\ \hline 2,496 \end{array}$$

Method 2: Area Model

78×32

x	70	8
30	2100	240
2	140	16

→ add all these products →

$$\begin{array}{r} 2100 \\ 240 \\ 140 \\ + 16 \\ \hline 2,496 \end{array}$$

Method 3: Regular algorithm

$$\begin{array}{r} 2x \\ 78 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ + 2340 \leftarrow \text{Place holder} \\ \hline 2,496 \end{array}$$