

**Learning Goal:**

By the end of this lesson I should be able to MULTIPLY double and triple digit positive numbers together using a COLUMN MODEL, WITHOUT the use of a calculator (technology).

**Example Strategies:** Find the PRODUCT of  $4 \times 13$

Column Model One

$$\begin{array}{r} 13 \\ \times 4 \\ \hline 12 \\ + 40 \\ \hline 52 \end{array}$$

Column Model Two

$$\begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array}$$

4 groups of 10, plus one more group of 10

**Skills Practice:** Find the Product of the following using the Column Model:

(a) 
$$\begin{array}{r} 15 \\ \times 6 \\ \hline \end{array}$$

(b) 
$$\begin{array}{r} 38 \\ \times 7 \\ \hline \end{array}$$

(c) 
$$\begin{array}{r} 17 \\ \times 12 \\ \hline \end{array}$$

(d) 
$$\begin{array}{r} 45 \\ \times 16 \\ \hline \end{array}$$

(e) 
$$\begin{array}{r} 74 \\ \times 12 \\ \hline \end{array}$$

(f) 
$$\begin{array}{r} 92 \\ \times 76 \\ \hline \end{array}$$