

## THREE DIGIT MULTIPLICATION

**Multiplying three-digit numbers by one digit numbers:**

$$245 \times 3 = ?$$

**Step #1:**

Place one number above the other so that the ones' place digits are lined up. Draw a line under the bottom number.

$$\begin{array}{r} 245 \\ \underline{\times 3} \end{array}$$

**Step #2:**

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the



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**Step**

Nex  
= 1.  
13).  
belo

4  
=

$$\begin{array}{r} 1 \text{ } 1 \\ 245 \\ \underline{\times 3} \\ 35 \end{array}$$

**Step #4 (Final Step):**

Now, multiply the 3 and the number in the hundred' place column (2).  $3 \times 2 = 6$ . Add the 1 you carried to the hundreds column to the 6 ( $6 + 1 = 7$ ) and place the answer below the line in the hundreds place column.

$$\begin{array}{r} +1 \text{ } 1 \\ 245 \\ \underline{\times 3} \\ 735 \end{array}$$

## Multiplying three-digit numbers by two digit numbers:

$$245 \times 13 = ?$$

In order to multiply these two numbers you would first follow the 4 steps listed above:

### Step #1

$$\begin{array}{r} 245 \\ \times 13 \\ \hline \end{array}$$

### Step #2

$$\begin{array}{r} \phantom{0}5 \\ 245 \\ \times 13 \\ \hline \end{array}$$

Step



Step

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Now there are a few more steps to complete in order to get the answer:

### Step #5

$$\begin{array}{r} 245 \\ \times 13 \\ \hline 735 \\ \phantom{0}5 \end{array}$$

Multiply the 1 in the tens place of the number 13 by the number 5 in 245.  $1 \times 5 = 5$ . Place the 5 under the 3 (under the line in the tens column)

### Step #6

$$\begin{array}{r} 245 \\ \times 13 \\ \hline 735 \\ 45 \end{array}$$

Multiply the 1 in the tens place of the number 13 by the number 4 in 245.  $1 \times 4 = 4$ . Place the 4 under the 7 (under the line in the hundreds column)

### Step #7

245 Multiply the 1 in the tens place of the number 13 by the  
 $\begin{array}{r} \times 13 \\ 735 \end{array}$  number 2 in 245.  $1 \times 2 = 2$ . (Place the 2 under the line  
 735 in the thousands column)

245

### Step #8

245  
 $\begin{array}{r} \times 13 \\ 735 \\ \hline 245 \\ \hline 3,185 \end{array}$

**Add** 735 and 245 together the way they are lined up.

245  
 3,185



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