

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.

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

Step #2:

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

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.

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

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

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

Step



Step

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

Step #5

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

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.



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