

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.

245 <u>x 3</u>

Step #2:

Multiply the two numbers in the ones' place $(3 \times 5 = 15)$. This answer is larger than 9,so place the 1 above the tens' place column and place the 5 below the line in the ones' place column.



Please login or register to download the printable version of this study guide.

Step #3: www.newpathlearning.com

). 3 x 4 2 + 1 =

13). Place the 1 above the hundreds' place column and place the 3 below the line in the tens' place column.

1+1 245 x 3 35

= 12. Add

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.

+1 1 245 <u>x 3</u> 735



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

245

x 13

Step #2

245

<u>x 13</u>

Step #3

1 + 1

245

x 13 **3**5

Step #4

+1 1 245

x 13 **73**5

PREVIEW

Please login or register to download the printable version of this study guide.

www.newpathlearning.com

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

Step #5

245

x 13 735 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

245 x 13

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)

735

45



Step #7

245 Multiply the 1 in the tens place of the number 13 by the x 13 number 2 in 245. 1 x 2 = 2. (Place the 2 under the line 735 in the thousands column) 245

Step #8

245

x 13

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

<u>245</u> 3,185

 $245 \times 13 = 3,185$



Please login or register to download the printable version of this study guide.

www.newpathlearning.com