Date \_\_\_\_\_

# **Decimal Multiplication - Guided Lesson Explanation**

## Explanation#1

Starting the right, multiply each digit in the top number by each digit in the bottom number, just as with whole numbers. Then we will add the products.

6.115

x 900

0000

x0000

55035xx

5503500

Now we will place the decimal point in the answer by starting at the right and moving a number of places equal to the sum of the decimal places in both numbers multiplied. Then it will be 5503.500

So, the answer is 5503.5.

# Explanation#2

Step 1) We have to multiply the numbers just as if they are whole numbers.

6044.7

× 225.6

Step 2) We will line up the numbers on the right. After that, starting the right, multiply each digit in the top number by each digit in the bottom number, just as with whole numbers. Then we will add the products.

6044.7

× 225.6

362682

302235x

120894xx



Name	Date

### 120894xxx

#### 136368432

Step 3) Now we will place the decimal point in the answer by starting at the right and moving a number of places equal to the sum of the decimal places in both numbers multiplied. Then it will be 1363684.32

So, the answer is 1363684.32.

## Explanation#3

Step 1) We have to multiply the numbers just as if they are whole numbers.

$$8300.2 \times 600$$

Step 2) Starting the right, multiply each digit in the top number by each digit in the bottom number, just as with whole numbers. Then we will add the products.

8300.2

x 600

0000

0000x

4980120x

49801200

Step 3) Now we will place the decimal point in the answer by starting at the right and moving a number of places equal to the sum of the decimal places in both numbers multiplied. Then it will be 49801200.

So, the answer is 4980120.0 or 4,980,120.