

Name _____

Date _____

Decimal Multiplication - Step-by-Step Lesson

Solve the problem.

$$\begin{array}{r} 3.532 \\ \times 658.2 \\ \hline \end{array}$$

Explanation:

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

$$\begin{array}{r} 3.532 \\ \times 658.2 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 3.532 \\ \times 658.2 \\ \hline 7064 \\ 28256x \\ 17660xx \\ 21192xxx \\ \hline 23247624 \end{array}$$

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 2324.7624

So, the answer is 2324.7624.

