

Name: _____

Date: _____

Multiplying Decimals

1. Multiply the decimals just as if they were whole numbers.
2. Line up the numbers to the right. You do not have to align the decimal points.
3. Multiply and add the products.
4. To determine where the decimal goes, count the number of decimal places of the two numbers being multiplied. That sum is the number of places you need to move. Start at the right and move that number of places to the left and place your decimal point.

				1	
	3	4	.	2	6
x				1	.
				2	
	6	8	5	2	
+	3	4	2	6	x
	4	1.	1	1	2

2 decimal places
1 decimal place

Move decimal point
3 places

$$\begin{array}{r} 436 \\ \times 0.87 \\ \hline \end{array}$$

$$\begin{array}{r} 40.5 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 1.34 \\ \times 7.0 \\ \hline \end{array}$$

$$\begin{array}{r} 755 \\ \times 5.2 \\ \hline \end{array}$$

$$\begin{array}{r} 23.6 \\ \times 6.8 \\ \hline \end{array}$$

$$\begin{array}{r} 54.5 \\ \times 3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 395 \\ \times 3.7 \\ \hline \end{array}$$

$$\begin{array}{r} 87.7 \\ \times 87 \\ \hline \end{array}$$

$$\begin{array}{r} 76.4 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} 23.4 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 92.2 \\ \times 0.44 \\ \hline \end{array}$$

$$\begin{array}{r} 28.1 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 9.09 \\ \times 0.45 \\ \hline \end{array}$$

$$\begin{array}{r} 47.0 \\ \times 0.15 \\ \hline \end{array}$$

$$\begin{array}{r} 3.52 \\ \times 80 \\ \hline \end{array}$$

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				1	
	3	4	.	2	6
x				1	.
				2	
	6	8	5	2	
+	3	4	2	6	x
	4	1.	1	1	2

2 decimal places
1 decimal place

Move decimal point
3 places

$$\begin{array}{r} 436 \\ \times 0.87 \\ \hline 379.32 \end{array}$$

$$\begin{array}{r} 40.5 \\ \times 54 \\ \hline 2,187.0 \end{array}$$

$$\begin{array}{r} 1.34 \\ \times 7.0 \\ \hline 9.380 \end{array}$$

$$\begin{array}{r} 755 \\ \times 5.2 \\ \hline 3,926.0 \end{array}$$

$$\begin{array}{r} 23.6 \\ \times 6.8 \\ \hline 160.48 \end{array}$$

$$\begin{array}{r} 54.5 \\ \times 3.2 \\ \hline 174.40 \end{array}$$

$$\begin{array}{r} 395 \\ \times 3.7 \\ \hline 1,461.5 \end{array}$$

$$\begin{array}{r} 87.7 \\ \times 87 \\ \hline 7,629.9 \end{array}$$

$$\begin{array}{r} 76.4 \\ \times 52 \\ \hline 3,972.8 \end{array}$$

$$\begin{array}{r} 23.4 \\ \times 74 \\ \hline 1,731.6 \end{array}$$

$$\begin{array}{r} 92.2 \\ \times 0.44 \\ \hline 40.568 \end{array}$$

$$\begin{array}{r} 28.1 \\ \times 32 \\ \hline 899.2 \end{array}$$

$$\begin{array}{r} 9.09 \\ \times 0.45 \\ \hline 4.0905 \end{array}$$

$$\begin{array}{r} 47.0 \\ \times 0.15 \\ \hline 7.050 \end{array}$$

$$\begin{array}{r} 3.52 \\ \times 80 \\ \hline 281.60 \end{array}$$