

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.

$\begin{array}{r} \phantom{x} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 34.26 \\ \times \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \hline 6852 \\ + 3426x \\ \hline 41112 \end{array}$	<p style="margin: 0;">1</p> <p style="margin: 0;">2 decimal places</p> <p style="margin: 0;">1 decimal place</p> <p style="margin: 0;">Move decimal point 3 places</p>
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$$\begin{array}{r} 32.5 \\ \times 6.9 \\ \hline \end{array}$$

$$\begin{array}{r} 391 \\ \times 0.94 \\ \hline \end{array}$$

$$\begin{array}{r} 71.3 \\ \times 8.8 \\ \hline \end{array}$$

$$\begin{array}{r} 5.87 \\ \times 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 391 \\ \times 4.4 \\ \hline \end{array}$$

$$\begin{array}{r} 6.90 \\ \times 95 \\ \hline \end{array}$$

$$\begin{array}{r} 2.95 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} 186 \\ \times 0.59 \\ \hline \end{array}$$

$$\begin{array}{r} 3.13 \\ \times 0.93 \\ \hline \end{array}$$

$$\begin{array}{r} 8.80 \\ \times 73 \\ \hline \end{array}$$

$$\begin{array}{r} 634 \\ \times 0.45 \\ \hline \end{array}$$

$$\begin{array}{r} 3.96 \\ \times 3.5 \\ \hline \end{array}$$

$$\begin{array}{r} 235 \\ \times 6.5 \\ \hline \end{array}$$

$$\begin{array}{r} 827 \\ \times 0.94 \\ \hline \end{array}$$

$$\begin{array}{r} 2.11 \\ \times 72 \\ \hline \end{array}$$

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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

$$\begin{array}{r} 32.5 \\ \times 6.9 \\ \hline 224.25 \end{array}$$

$$\begin{array}{r} 391 \\ \times 0.94 \\ \hline 367.54 \end{array}$$

$$\begin{array}{r} 71.3 \\ \times 8.8 \\ \hline 627.44 \end{array}$$

$$\begin{array}{r} 5.87 \\ \times 5.6 \\ \hline 32.872 \end{array}$$

$$\begin{array}{r} 391 \\ \times 4.4 \\ \hline 1,720.4 \end{array}$$

$$\begin{array}{r} 6.90 \\ \times 95 \\ \hline 655.50 \end{array}$$

$$\begin{array}{r} 2.95 \\ \times 76 \\ \hline 224.20 \end{array}$$

$$\begin{array}{r} 186 \\ \times 0.59 \\ \hline 109.74 \end{array}$$

$$\begin{array}{r} 3.13 \\ \times 0.93 \\ \hline 2.9109 \end{array}$$

$$\begin{array}{r} 8.80 \\ \times 73 \\ \hline 642.40 \end{array}$$

$$\begin{array}{r} 634 \\ \times 0.45 \\ \hline 285.30 \end{array}$$

$$\begin{array}{r} 3.96 \\ \times 3.5 \\ \hline 13.860 \end{array}$$

$$\begin{array}{r} 235 \\ \times 6.5 \\ \hline 1,527.5 \end{array}$$

$$\begin{array}{r} 827 \\ \times 0.94 \\ \hline 777.38 \end{array}$$

$$\begin{array}{r} 2.11 \\ \times 72 \\ \hline 151.92 \end{array}$$