

Multiplying Decimals

$$2.6 \times 3.94$$

$$\begin{array}{r} 3.94 \\ \times 2.6 \\ \hline \end{array}$$

line them up here

$$\begin{array}{r} 3.94 \quad 2 \\ \times 2.6 \quad 1 \\ \hline 2364 \\ + 7880 \\ \hline 10244 \end{array}$$

How many places

10.244

- re write vertically
- line up the numbers on the far right side
- * Do NOT line up the decimals on purpose
- always put the "longer" number on top
- multiply like normal
- count up number of decimal places in entire problem
- move that many places to the left in the answer

ex. 1

$$2 \times .12341$$

$$\begin{array}{r} .12341 \quad 5 \\ \times 2 \\ \hline .24682 \end{array}$$

.24682

ex. 2

$$\begin{array}{r} .12344 \\ \times .0013 \\ \hline 1234 \\ 0000 \\ 0000 \\ \hline .0001234 \end{array}$$

add if zeros necessary