2.4 Multiplying and Dividing Decimals w/negatives p.66

Multiplication:

- you do NOT need to line up the decimals
- put the longer number on top
- multiply as usual (ignore decimals)
- then, count the number of decimal places in both factors ~ that is the number of decimal places in your product
- decide if your product is positive or negative

Examples: use parenthesis ( ) to show multiplication; never use x because x is a variable

1) -2.03 (3.8) = -7.714

$$\begin{array}{r} 2.03 \\ \times\ 3.8 \\ \hline 1624 \\ 609 \\ \hline 7.714 \end{array}$$

2) 1.96 (-4.1) = -8.036

$$\begin{array}{r} 1.96 \\ \times\ 4.1 \\ \hline 196 \\ 784 \\ \hline 8.036 \end{array}$$

3) 9.811 (0.3) = 2.9433

$$\begin{array}{r} 9.811 \\ \times\ 0.3 \\ \hline 2.9433 \end{array}$$

4) -0.006 (-0.3) (-1.5007) = -0.0027012 6

$$\begin{array}{r} 1.5007 \\ \times\ .3 \\ \hline .45021 \end{array} \qquad \begin{array}{r} 0.45021 \\ \times\ .006 \\ \hline 0.0027012 6 \end{array}$$

5) -7 (0.08) (-0.43) = 0.2408

$$\begin{array}{r} 0.08 \\ \times\ .43 \\ \hline 024 \\ 032 \\ \hline 0344 \end{array} \qquad \begin{array}{r} .0344 \\ \times\ 7 \\ \hline 0.2408 \end{array}$$