

# Multiplying Decimals

Helpful Hints:

\*Put the number with more digits on top.

\*DO NOT line up the decimals!

\*Multiply the numbers as if they were whole numbers.

\*How many numbers were behind the decimal point in the original problem (both numbers)? Place the decimal point the same number of spaces from the right in your final answer.

Find the product.

Ex.1  $3.77 \cdot 2.8$

$$\begin{array}{r} 3.77 \\ \times 2.8 \\ \hline 3016 \\ + 754 \\ \hline 10556 \end{array} \quad (10.556)$$

Ex.2  $.6 \cdot 7$

$$\begin{array}{r} .6 \\ \times 7 \\ \hline 42 \end{array} \quad (4.2)$$

Ex.3  $0.9 \cdot 0.6$

$$\begin{array}{r} .9 \\ \times .6 \\ \hline .54 \end{array} \quad (.54)$$

Ex.4  $0.8 \cdot 0.7$

$$\begin{array}{r} .8 \\ \times .7 \\ \hline .56 \end{array} \quad (.56)$$

DON'T FORGET.....

\*A negative times a negative = a positive!

\*A negative times a positive = a negative!

Find the product.

Ex.1  $-5.77 \cdot 1.5$

$$\begin{array}{r} 5.77 \\ \times 1.5 \\ \hline 2885 \\ + 577 \\ \hline 8655 \end{array} \quad (-8.655)$$

Ex.2  $-6.3 \cdot -3.45$

$$\begin{array}{r} 3.45 \\ \times 6.3 \\ \hline 1035 \\ + 20700 \\ \hline 21735 \end{array}$$

Apply What You Know.....

1.) If you walk 3.5 miles per hour, how far will you walk in 1.2 hours?

$$\begin{array}{r} 3.5 \\ \times 1.2 \\ \hline 70 \\ 35 \\ \hline 420 \end{array} \quad 4.2 \text{ miles}$$

2.) At the lumberyard, lumber costs \$0.95 a foot. If you need 6.5 feet, how much will you pay?

$$\begin{array}{r} 6.5 \\ \times .95 \\ \hline 325 \\ + 585 \\ \hline 6175 \end{array} \quad \begin{array}{l} 6.175 \\ \$6.18 \end{array}$$

