Name:_____ Date: **Friday, October 15th**

Review of: # Multiplying Decimals

1. When multiplying decimals, estimate the product first.
2. The will help you place the decimal point in the product.
3. Last, check to see if your answer is reasonable.

Problem	Estimate	Multiply and place decimal
3.78 x 4.1 =	4 x 4 = 16 our answer should be *about* 16.	$\begin{array}{r} 3.78 \\ \times\ 4.1 \\ \hline 378 \\ +\ 15120 \\ \hline 15.498 \end{array}$

4. When multiplying decimals, you can also follow the following steps to correctly place the decimal point.
5. First, multiply the two factors as if they are both whole numbers (you don't need to line up the decimals)
6. Then, count the decimal places in both factors to find out how many places are needed in the product.
7. Start at the right of the product and count the number of places in the factors.
8. Use estimation to check!

Estimate:
6 x 2 = 12
our answer should be *about* 12.

5.67 x 2.2=

$\begin{array}{r} 5.67 \\ \times\ 2.2 \\ \hline 1134 \\ 11340 \\ \hline 12.474 \end{array}$

Practice: Multiplying Decimals

Find each product. Use estimation to check. Show all of your work.

#1 **3.5 x 2.2 =**

$$\begin{array}{r} 3.5 \\ \times\ 2.2 \\ \hline 70 \\ +\ 700 \\ \hline 7.70 \end{array}$$

#2 **17 x 13.45=**

$$\begin{array}{r} 13.45 \\ \times\ 17 \\ \hline 9415 \\ +\ 13450 \\ \hline 228.65 \end{array}$$

#3 **20.002 x 3.1=**

$$\begin{array}{r} 20.002 \\ \times\ 3.1 \\ \hline 20002 \\ 600060 \\ \hline 62.0062 \end{array}$$

#4 **15.25 x 3.2 =**

$$\begin{array}{r} 15.25 \\ \times\ 3.2 \\ \hline 3050 \\ 45750 \\ \hline 48.800 \end{array}$$

#5 **0.39 x 0.021=**

$$\begin{array}{r} 0.021 \\ \times\ 0.39 \\ \hline 0189 \\ 00630 \\ \hline 0.00819 \end{array}$$

#6 **1.45 x 13.9=**

$$\begin{array}{r} 1.45 \\ \times\ 13.9 \\ \hline 1305 \\ 4350 \\ 14500 \\ \hline 20.155 \end{array}$$

$$\begin{array}{r} 13.9 \\ \times 1.45 \\ \hline 695 \\ 5560 \\ 13900 \\ \hline 20.155 \end{array}$$

#7 At Shop and Save Grocery Store, grapes cost $2.39 a pound. If you buy 3.4 pounds, how much will it cost? Round your answer to the <u>nearest cent</u>.

$$\begin{array}{r} 2.39 \\ \times\ 3.4 \\ \hline 956 \\ 7178 \\ \hline 8.126 \end{array}$$

8.13

Homework is on Khan Academy, due by Mon night, Oct 18th.
You must SHOW WORK and bring it class to receive full credit for Khan Academy starting with this lesson.