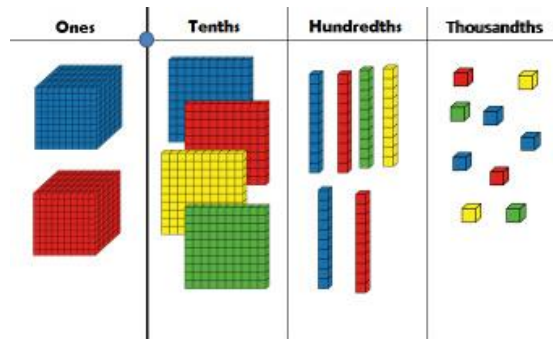


Name: _____

Div: _____

Date: _____

3.3 Multiplying Decimals by a Whole Number



Place Value with Base 10's:

Represent each of the following in your groups using base 10 blocks.

Ones	Tenths	Hundredths	Thousandths
3	2	4	9
2	3	5	6
1	5	3	2

Multiplying with Base 10's:

Draw out the following after showing it with base 10 blocks:

Multiply	Ones	Tenths	Hundredths	Thousandths
1.646 x 3				
1.646 1.646 1.646	 4	 9	 3	 8

- Write out the value you plan to multiply the appropriate number of times
- Draw this in the chart beside each number
- For every 10 of one place value, change them to 1 of the next highest place value.
 - 10 thousandths = 1 hundredth
 - 10 hundredths = 1 tenth
 - 10 tenths = 1 one
- Write out how many base 10 blocks you now have in each place value.

Name: _____

Div: _____

Date: _____

Method 2:

Multiply as we did in our money math unit:

Remember: your answer should have as many place values after the decimal as the total number of place values after your numbers being multiplied.

$$\begin{array}{r} 1.646 \\ \times 3 \\ \hline 4.938 \end{array}$$

You can use benchmarks to estimate what the product would be.

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array} \text{ overestimate}$$

This is a good way to check that your decimal is in the right place.

Homework: p. 97 # 2-10 Bonus # 11-14