

Notes and Handouts

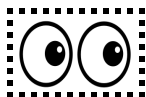
Name: _____

Unit 1: Whole and Decimal Number Operations

Math6

Period _____

Multiplying Decimal Numbers



Terms: **Factor** - A number being multiplied by another number

Product - The result of multiplying one number by another number



Objective: You will learn to multiply a decimal number to another decimal number.



Steps:

1. Write the numbers. You do not need to line up the decimals.	$\begin{array}{r} 2.23 \\ \times 4.5 \\ \hline \end{array}$
2. Count the total number of decimal places.	$\begin{array}{r} 2.\underline{23} \leftarrow 2 \text{ decimal places} \\ \times \underline{4.5} \leftarrow +1 \text{ decimal place} \\ \hline \end{array}$ <p style="text-align: right;">3 decimal places</p>
3. Multiply just like you do with whole numbers.	$\begin{array}{r} 2.23 \\ \times 4.5 \\ \hline 1115 \\ + 8920 \\ \hline 10035 \end{array}$
4. Put the decimal point so the product has the same total number of decimal places.	$\begin{array}{r} 2.23 \\ \times 4.5 \\ \hline 1115 \\ + 8920 \\ \hline 10.\underline{035} \leftarrow 3 \text{ decimal places} \end{array}$

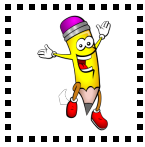
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Examples:

Ex. 1 7.37×13

$$\begin{array}{r} 7.37 \leftarrow 2 \text{ decimal places} \\ \times 13 \leftarrow 0 \text{ decimal places} \\ \hline 2211 \\ + 7370 \\ \hline 95.81 \leftarrow 2 \text{ decimal places} \end{array} \quad 2 + 0 = 2 \text{ total decimal places}$$



YOU GOT THIS:

1) 35.4×1.7

2) 3.02×92.3

3) 15.64×3.92

4) 245.16×4.27