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## Reteaching Page 3.6 Multiply Decimals

When you multiply with decimals the answer gets smaller! This "hard to wrap your mind around" concept is what causes plenty of difficulty when multiplying decimals. Let's not sweat the details!
(decimals are fractions, so multiplying by decimals is equivalent to dividing whole numbers

$$
\text { Example } 8 \text { * } 0.25=8 \div 4 \ldots \text { ) }
$$

Multiplying Decimals is as easy as $1,2,3$. If you can count, you will master this skill.
Step 1 - Count the Decimal Places
Step 2 - Drop the Decimals and Multiply
Step 3 - Put the Decimal Places Back
0.528 * $3.16=$ $\qquad$
Step 1 - 528 and 16 are all decimal values. I count 5 decimal places. Record 5 so you don't forget it later!
$0.528 * 3.16=$ $\qquad$ (5)

Step 2-528*316=166848 (5)
Step 3 - we need to put 5 decimal places back into the answer. Start at the right; 84866 are the five places so we will put the decimal after the second 6. 1.66848

## Practice Counting Decimal Places

Record the number of decimal places will be in each product below.
_1) 1.7 * 0.54
2) $9.34 * 1.6$
3) 0.91 * 8
$\qquad$
_4) 1.54 * 0.23

## Practice Putting Decimal Places Back

Put the correct number of decimal places into each product below.
5) $\quad 18.6 * 0.43=7998$
6) $12.5 * 7=875$
7) $\quad 6.43 * 0.81=52083$
8) $0.76 * 4.2=3192$
**Final Note** Throughout my many years (20+) of teaching, the common error in multiplying decimals occurs the moment that you think you are skilled enough not to bother writing down the number of decimal places from step 1. Jotting down the number of decimal places is too simple and quick to skip! I promise that step will assure correct answers every time you multiply correctly!

