

Decimal Multiplication

When multiplying decimal numbers, such as $.2 \times .2$, first proceed as though the decimal points did not exist. $2 \times 2 = 4$. You must then examine the answer (4.) and move the decimal point from its natural position at the far right to the *left* the same number of decimal places as are in the problem, in this case, 2

$$.2 \times .2 = .\underline{04}$$

2 places

Using this method, you will see that

$$.2 \times .2 \times .2 = .\underline{008}$$

$$.2 \times .2 \times .2 \times .2 = .\underline{0016}$$

$$.2 \times .11 = .22$$

$$\begin{array}{r} .11 \\ \underline{.2} \\ .022 \end{array}$$

3 places

Examine the following problems

A. 58.62 Note the 4 places
 $\times .03$ behind the decimal
 1.7586
 4 places behind the decimal
 (.62 and .03)

B. 111.232
 $\times 3.21$
 111232
 222464
 333696
 357.05472

And the 5 places in problem B above.

Do the multiplication in the problems below and then place the decimal points at the appropriate place in each answer.

1. Decimal Multiplication

1. 1.2
 $\times .24$

2. 8.001
 $\times .01$

3. $.22$
 $\times .34$

4. 7.07
 $\times .023$

5. $.85$
 $\times 47.6$

6. 5.42
 $\times 7.1$

7. 1.503
 $\times 82.7$

8. 53.48
 $\times 6.5$

9. 9.47
 $\times 7.09$

10. 5.006
 $\times .79$

11. 403.1
 $\times .407$

12. 76.82
 $\times .006$

1	
2	
3	
4	
5	
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7	
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9	
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11	
12	