Multiplying Decimals (Basic Example)

9 x 0.3

It's easier to multiply by whole numbers. First, multiply 0.3 by ten so that we are only dealing with whole numbers

$0.3 \times 10 = 3$

Next, work out 9 x 3

$9 \times 3 = 27$

We have to undo what we did in the first step

So we must divide our answer by 10

$27 \div 10 = 2.7$

$9 \times 0.3 = 2.7$

1.9 x 0.3

It's easier to multiply by whole numbers. First, multiply 0.3 and 1.9 by ten so that we are only dealing with whole numbers

$1.9 \times 10 = 19$

$0.3 \times 10 = 3$

Next, work out 19 x 3

$19 \times 3 = 57$

$$\begin{array}{r} {\scriptstyle 2} \\ 1\ 9 \\ \times\quad 3 \\ \hline 5\ 7 \end{array}$$

We have to undo what we did in the first step

So we must divide our answer by 10 *and* 10 again

$57 \div 10 = 5.7$

$5.7 \div 10 = 0.57$

$1.9 \times 0.3 = 0.57$