

# DECIMAL MULTIPLICATION

4 steps



## Steps:

1. Convert decimals into whole numbers
2. Note the total number of spaces the decimal point was moved forwards (above)
3. Complete the new multiplication
4. Move the decimal point **backwards** the number of times in step 2

**Example :**  $0.21 \times 0.347$

Step 1 : Convert the decimals into whole numbers

$$0.21 \rightarrow 21$$

$$0.347 \rightarrow 347$$

Step 2: Note the total number of spaces the decimal point was moved forwards (above)

2 times for the first number + 3 times for the second number = 5 times total!

Step 3: Complete the new multiplication

$$\begin{array}{r} 1 \\ 347 \times \\ \underline{21} \\ 347 + \\ \underline{6940} \\ 7287 \end{array}$$

Step 4: Move the decimal point backwards the number of times in step 2 (5)

$$0007287.00 \rightarrow 0.07287$$

Final answer :  $0.21 \times 0.347 = 0.07287$



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