

Multiplying Decimals

Just follow these steps:

Multiply normally, ignoring the decimal points.

Then put the decimal point in the answer - it will have as many decimal places as the two original numbers combined.

Example One

Multiply 0.03 by 1.1

start with: 0.03×1.1

multiply without decimal points: $3 \times 11 = 33$

0.03 has **2 decimal places**,
and 1.1 has **1 decimal place**,
so the answer has **3 decimal
places**:

0.033

Example Two

Multiply 0.1 by 1.1

start with: 0.1×1.1

multiply without decimal points: $1 \times 11 = 11$

0.1 has **1 decimal places**,
and 1.1 has **1 decimal place**,
so the answer has **2 decimal
places**:

0.11

Example Three

Multiply 0.26 by 2.3

start with: 0.26×2.3

multiply without decimal points: $26 \times 23 = 598$

0.26 has **2 decimal places**,
and 2.3 has **1 decimal place**,
so the answer has **3 decimal
places**:

0.598

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Common Sense

As a final check you can put your "common sense" hat on and think "*is that the right size?*", because you don't want to pay ten times too much for anything, nor get only one-tenth of what you need!

And that's all.

Just remember: the answer should have the same number of decimal places as are in both the numbers you are multiplying.