

Decimal Operations Poem

Decimal point, decimal point,
Where does it go?
For addition & subtraction,
Decimals line in ONE row.

$$\begin{array}{r}
 \begin{array}{c} \text{Ones} \\ 2 \end{array} \begin{array}{c} \text{Tenths} \\ 1 \end{array} \begin{array}{c} \text{Hundredths} \\ 8 \end{array} \begin{array}{c} \text{Thousandths} \\ 4 \end{array} \\
 8.784 \\
 2.560 \\
 + 6.721 \\
 \hline
 \end{array}$$

When multiplying decimals,
Count their places,
Put a decimal in the product,
Moving right to left spaces.

$$\begin{array}{r}
 73.\overset{\circ}{2}\overset{\circ}{4} \quad \text{---} \rightarrow \text{2 decimal places} \\
 \times 5.\overset{\circ}{1} \quad \text{---} \rightarrow \text{+1 decimal place} \\
 \hline
 7324 \\
 + 36620 \\
 \hline
 373.\overset{\circ}{5}24 \quad \text{---} \rightarrow \text{We place the decimal point so that there are 3 decimal places}
 \end{array}$$

Before you divide with
decimals outside,

$$\frac{0.15}{1.146} \times \frac{100}{100} = \frac{15}{114.6}$$

Remember first to
slide & slide

Decimal point, decimal point,
Where does it go?
A decimal in the quotient,
aligns with the dividend below.

Jumping the decimal two places symbolizes multiplying 0.15 by 100.

Jumping the decimal up is the easiest way to remember to put the decimal into the quotient.

Jumping the decimal point in the dividend the same number of times as you did in the divisor is required to keep the expression equivalent.

114.6 ÷ 15 will yield the same results as 1.146 ÷ 0.15

$$\begin{array}{r}
 0.15 \overline{) 1.146} \\
 \downarrow \text{New Problem} \\
 15 \overline{) 114.60} \\
 \underline{-105} \\
 96 \\
 \underline{-90} \\
 60 \\
 \underline{-60} \\
 0
 \end{array}$$

Adapted from <https://www.slideserve.com/marilu/word-problems> and <https://www.pinterest.at/pin/259942209725687596/>