

Adding, Subtracting, Multiplying and Dividing Decimals

Addition

Find the sum:

$$\begin{array}{r} 2.45 + 12.763 \\ 2.450 \\ + 12.763 \\ \hline 15.213 \end{array}$$

Steps to Add

1. Write down numbers, one under the other so the Decimal Points Line Up
2. Put in zeros so the numbers have the same length.
3. Drop the Decimal Point straight down into the answer and Add.

Subtraction

Find the difference:

$$\begin{array}{r} 1.35 - 0.728 \\ 1.350 \\ - 0.728 \\ \hline 0.622 \end{array}$$

Steps to Subtract

1. Write down numbers, one under the other so the Decimal Points Line Up
2. Put in zeros so the numbers have the same length.
3. Drop the Decimal Point straight down into the answer and Subtract.

Practice:

$$\begin{array}{r} 4.780 \\ + 0.970 \\ \hline 5.750 \end{array}$$

$$\begin{array}{r} 2.800 \\ + 44.470 \\ \hline 47.270 \end{array}$$

Practice:

$$\begin{array}{r} 97.800 \\ - 6.09 \\ \hline 91.71 \end{array}$$

$$\begin{array}{r} 0.682 \\ - 0.620 \\ \hline 0.062 \end{array}$$

Multiplication

Find the Product:

$$3.1 \cdot 2.5$$

$$\begin{array}{r} 3.1 \\ \times 2.5 \\ \hline 155 \\ 620 \\ \hline 7.75 \end{array}$$

Steps to Multiply

1. Ignore the Decimal Point. Multiply Normally
2. Count how many decimal places the two original numbers have combined.
3. Starting at the right of your answer, move that many decimal places to the left and place the decimal point

Division

Find the Quotient:

$$\begin{array}{r} 7.28 \div 1.3 \\ 5.6 \\ 1.3 \overline{) 7.28} \\ \underline{-6.5} \\ 78 \\ \underline{-78} \\ 0 \end{array}$$

Steps to Divide

1. $a \div b = b \overline{)a}$
2. Move the decimal point to the right to make the divisor (b) a whole number. Move the decimal the same amount of spaces to the right in the dividend (a).
3. Put the Decimal Point in the answer directly above the dividend (a)
4. Divide Normally using Long Division

Practice:

$$\begin{array}{r} 4.7 \\ \times 6.1 \\ \hline 47 \\ 2820 \\ \hline 28.67 \end{array}$$

$$\begin{array}{r} 15.7 \\ \times 2.8 \\ \hline 1256 \\ 3140 \\ \hline 43.96 \end{array}$$

Practice:

$$\begin{array}{r} 15.2 \\ 0.2 \overline{) 3.04} \\ \underline{-2} \\ 10 \\ \underline{-10} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

$$\begin{array}{r} 16.7 \\ 1.6 \overline{) 26.72} \\ \underline{16} \\ 107 \\ \underline{-96} \\ 112 \\ \underline{-112} \\ 0 \end{array}$$