Check Your Answers on Decimal Operations!

1) 2.75
$$+ \frac{2.30}{0.45}$$
 Addition requires "like terms" which means that tenths must be added to tenths and hundredths to hundredths. In other words, it is necessary to line up the decimal points which will line up the digits with the same place value. Add zeros as place holders if needed.

3)
$$4.476$$

$$-\frac{9.876}{4.476}$$
Subtraction also requires "like terms" which means that tenths must be subtracted from tenths and hundredths from hundredths. In other words, it is necessary to line up the decimal points which will line up the digits with the same place value. Add zeros as place holders if needed.

4) 3.199
$$-\frac{3.200}{0.001}$$
 Again, line up the decimal points, using zeros as needed.

5)
$$0.0012$$
 0.03
2 digits to the right of the decimal point
$$\times 0.04$$
2 digits to the right of the decimal point
$$0.0012$$
4 digits to the right of the decimal point in the energy of the decimal point in the energy of the second of the decimal point in the energy of the energy

6)
$$0.0060$$

$$\begin{array}{r}
1.2 \\
\times 0.005 \\
\hline
0.0060
\end{array}$$
1 digit to the right of the decimal point digits to the right of the decimal point in the answer.

4 digits to the right of the decimal point in the answer

7) 9.2
$$3.68 \div 0.4 = 0.4. 13.6.8 = 4. 13.6.8$$

8)
$$1000 \quad 70 \div 0.07 = 0.07.)70.00. = 7.)7000$$

9)
$$14.0432$$
 $+ \frac{13.50}{0.79}$ $- \frac{0.2468}{14.0432}$

Multiplication does **not** require "like terms." It is **not** necessary to line up the decimal points. When multiplying decimals, move the decimal point by counting the number of digits to the right of the decimal point in the numbers multiplied.

It is not necessary to include the final 0, shown in gray (except in science as a significant digit!).

If there is a decimal in the divisor, multiply by a power of 10 to convert the divisor to a whole number. The dividend must also be multiplied by that same number. Multiplying by a power of ten moves the decimal point in both the divisor and dividend to the right.

Add zeros as place holders when necessary.

Yes!! Great work!

10) 231
$$\begin{array}{c} 15.4 \\ \times 0.03 \\ \hline 0.462 \end{array}$$
 1 digit to the right of the decimal point 2 digits to the right of the decimal point 3 digits to the right of the decimal point in the answer
$$\begin{array}{c} 0.462 \div 0.002 = 0.002. \\ \hline 0.462 \div 0.002 = 0$$

Perfect score? Yes! You've got this!! You're ready to move on to the next section!!!