

rite this value as a fractions

$$3.69 \times 10^{-2}$$

$$3.69 \times 10^{-2} = 3.69 \times \frac{1}{10} \times \frac{1}{10}$$

multiplying  
, multiply straight

Why division? Because -4 is the opposite or the inverse of 4 (additive inverse). Any number raised to a (+) means multiply it that many times. So raised to a (-) power means to divide it that many times.

$$3.69 \div \frac{1}{100} = \text{moving the decimal} = .0369$$

$$\frac{369}{10000}$$

to convert a fraction to a decimal: count the places behind the decimal- thats your denominator

$$2.874 \times 10^{-4} = 2.874 \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10}$$

$$2.874 \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} = 2.874 \times \frac{1}{10000} = 0.0002874$$

$$\begin{array}{r} \underbrace{000} 2.874 \\ \cdot \quad \underline{000} \boxed{2874} \\ \quad \quad \quad 2874. \\ \hline \quad \quad \quad 0.0002874 \end{array}$$

