

Notation

- $3.4 \times 10^5 = \boxed{5-5 \rightarrow 5}$
 340000
- $1.862 \times 10^{-3} = \boxed{-3+3+3}$
 0.001862
- $2950,000 \xrightarrow{+6} = 2.95 \times 10^6$
- $0.0000000721 \xrightarrow{-8} = 7.21 \times 10^{-8}$

$$(2.5 \times 10^8) + (3.4 \times 10^6)$$

$\swarrow \quad \searrow$
 $10^{6+2} = 10^8$

$$2.5 \times 10^8 + 0.034 \times 10^8$$

$$\begin{array}{r} 2.5 \times 10^8 \\ 0.034 \times 10^8 \\ \hline \end{array}$$

$$\boxed{2.534 \times 10^8}$$

$$(3.71 \times 10^{-3}) - (8.1 \times 10^{-5})$$

$\swarrow \quad \searrow$
 $-3 > -5 \quad -5 \pm 2$

$$3.71 \times 10^{-3} - 0.081 \times 10^{-3}$$

$$\begin{array}{r} 3.71 \times 10^{-3} \\ -0.081 \times 10^{-3} \\ \hline \end{array}$$

$$3.629 \times 10^{-3}$$

$$(3.71 \times 10^4) \cdot (3.9 \times 10^{-2})$$

$\swarrow \quad \searrow$
 $4 + (-2)$

$$\begin{array}{r} 3.71 \times 3.9 \quad 10^4 \cdot 10^{-2} \\ 14.469 \times 10^{2+1} \end{array}$$

$$\boxed{1.4469 \times 10^3}$$

$$\frac{2.48 \times 10^{-3}}{6.1 \times 10^8} = \frac{2.48}{6.1} \times 10^{-3-8}$$

$$\approx 0.407 \times 10^{-11} \text{ (-1)}$$

$$\boxed{4.07 \times 10^{-11}}$$

Move decimal to $\leftarrow$ L
Exponent ADD

Move decimal to $\rightarrow$ Right
Exponent Sub

Manipulate exponent to
Greatest degree

- Line decimal points up
- Add
- Simplify

Manipulate exponent to
Greatest degree

- Line decimal pts up
- Subtract
- Simplify

multiply Decimals

Use exponent rules to +
exponents

use **LaRs** to simplify

Divide Decimals

use exponent rules to -
exponents

use **LaRs** to simplify