

Scientific Notation Review

$$\begin{array}{r}
 \underbrace{001} 21 \times 10^{10} \rightarrow .00121 \times 10^{13} \\
 + 2.43 \times 10^{13} \\
 \hline
 2.43121 \times 10^{13} \\
 \uparrow \\
 2.43 \times 10^{13}
 \end{array}$$

$$\begin{array}{r}
 1.99 \times 10^{20} \\
 + 0.981 \times 10^{17} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.99 \times 10^{20} \\
 + .00981 \times 10^{20} \\
 \hline
 \end{array}$$

$$\boxed{1.99981 \times 10^{20}}$$

$$2.00 \times 10^{20}$$

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$$\begin{array}{r} 4.61 \times 10^{10} \\ - 2.61 \times 10^2 \end{array} \rightarrow \begin{array}{r} .0000000261 \times 10^{10} \end{array}$$

$$\begin{array}{r} \boxed{4.61} \\ .0000000261 \\ \hline \boxed{4.61}000000261 \end{array}$$

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$$\begin{array}{r} 2.46 \times 10^{-4} \\ - 1.23 \times 10^{-3} \\ \hline \end{array} \quad .\underbrace{000000246}$$

$$\begin{array}{r} \hookrightarrow .000000246 \times 10^3 \\ - 1.23 \quad \times 10^3 \\ \hline - 1.23 \times 10^3 \end{array}$$

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$$\begin{array}{r} 2.46 \times 10^2 \\ - 1.23 \times 10^{-3} \\ \hline \end{array} \rightarrow \begin{array}{r} 2.46 \times 10^2 \\ \underbrace{0000}_{1.23 \times 10^2} \\ \hline 2.46 \times 10^2 \end{array}$$

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$$\begin{array}{r} 2.46 \times 10^{23} \\ \times 1.23 \times 10^{14} \\ \hline 3.0258 \times 10^{37} \end{array}$$

$$\underline{3.03 \times 10^{37}}$$

$$\underline{\cancel{3.0258} 358 \times 10^{3738}}$$

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$$\frac{1.00 \times 10^{10} \times 2.00 \times 10^{-14}}{2.00 \times 10^{-4}}$$

$$\frac{2.00 \times 10^{-14}}{1.00 \times 10^0}$$

$$2.00 \times 10$$

$$\begin{array}{r} -14 \\ + 10 \\ \hline -4 \end{array}$$