

CONCEPT: ADDITION AND SUBTRACTION

When you add or subtract values in scientific notation they must have the same exponents. The coefficients add or subtract, but the exponents _____.

$$\begin{array}{r} A \times 10^x \\ - B \times 10^x \\ \hline \end{array}$$

$$\begin{array}{r} A \times 10^x \\ + B \times 10^x \\ \hline \end{array}$$

- If the exponents are not the same then we transform the _____ value so that they do.
- Remember when adding or subtracting values that the final answer must have the _____.

EXAMPLE 1: Using the method discussed above, determine the answer to the following question.

$$\begin{array}{r} 8.17 \times 10^8 \\ + 1.25 \times 10^9 \\ \hline \end{array}$$

EXAMPLE 2: Using the method discussed above, determine the answer to the following question.

$$\begin{array}{r} 9.08 \times 10^{-11} \\ - 1.17 \times 10^{-12} \\ - 3.35 \times 10^{-13} \\ \hline \end{array}$$