CONCEPT: MULTIPLICATION AND DIVISION

When you multiply values in scientific notation you _____ the coefficients and _____ the exponents.

$$(A \times 10^{x}) \cdot (B \times 10^{y}) =$$

When you divide values in scientific notation you _____ the coefficients and _____ the exponents.

$$\frac{(A \times 10^{x})}{(B \times 10^{y})} =$$

After multiplying and/or dividing remember that for the coefficient will have the _____.

EXAMPLE 1: Using the method discussed above, determine the answer when the following values are multiplied.

$$(2.134 \times 10^{5}) \cdot (1.6 \times 10^{-3}) \cdot (3.07 \times 10^{6})$$

EXAMPLE 2: Using the methods discussed above, determine the answer for the following mixed operations question.

$$\frac{(7.33 \times 10^{8}) \cdot (9.89 \times 10^{-1})}{(6.12 \times 10^{11})}$$