

4.2) Rules for division in scientific notation

1) Divide the coefficients

2) Subtract the exponents (base 10 remains)

Example 1 : $(6 \times 10^6) / (2 \times 10^3) = 3 \times 10^3$

What happens if the coefficient is less than 10?

Example 2 : $(2 \times 10^7) / (8 \times 10^3) = 0.25 \times 10^4$

While the value is correct it is not correctly written between 1 and 10. We must move the decimal between 1 and 10. For each place we move the of ten.

$0.25 \times 10^4 = 2.5 \times 10^3$ in scientific notation.

in scientific notation since the coefficient is not point over to the right until the coefficient is decimal over the exponent will be lowered 1 power