

Calculate the following and express your answer in proper scientific notation and units:

a.) $2.1 \times 10^3 \text{ m} \times 1.5 \times 10^{-6} \text{ m} =$

a.) $5 \times 10^{12} \text{ g} / 2 \times 10^{11} \text{ ml} =$

b.) $\frac{(5.6 \times 10^{-7} \text{ mol})}{(4.2 \times 10^{-3} \text{ m} \times 0.010 \text{ m} \times 5.7 \times 10^{-4} \text{ m})} =$

c.) $1.0 \times 10^{12} \$ + 1.0 \times 10^{-1} \$ =$

d.) $3.2 \times 10^{-6} \text{ kg} / 1.6 \times 10^{-9} \text{ s} =$

e.) $\begin{array}{r} 75.00 \text{ g} \\ + 25.00 \text{ g} \\ \hline \end{array}$

f.) $3.5 \times 10^{20} \text{ atoms} / 0.125 \text{ L} =$

g.) $\frac{(2.5 \times 10^6 \text{ Pa} \times 2.992 \times 10 \text{ in Hg})}{1.01325 \times 10^5 \text{ Pa}}$

h.) $35.700 \text{ g} + 41.2263 \text{ g} =$

i.) $43.77 \text{ m} \times 3 \text{ m}$