Subiectul B. ELEMENTE DE TERMODINAMICĂ

II a.	$\rho = \dfrac{p_1 \mu}{RT_1}$ Rezultat final: $\rho = 2{,}4\ \text{kg/m}^3$
b.	$n = \dfrac{p_1 R}{N_A T}$ Rezultat final: $n = 4{,}67 \cdot 10^{25}\ \text{m}^{-3}$
c	$\nu\mu = m_1 + m_2$ $\nu = \dfrac{m_1}{\mu_1} + \dfrac{m_2}{\mu_2}$ Rezultat final: $m_2 = 48\ \text{g}$
d.	$pV = \nu RT$ şi $\dfrac{p}{k}V = \nu' RT \Rightarrow \nu' = \dfrac{\nu}{k}$ $pV = \nu RT$ şi $pV = \left(\dfrac{\nu}{k} + \dfrac{\Delta m_1}{\mu_1}\right)RT \Rightarrow \nu = \dfrac{\nu}{k} + \dfrac{\Delta m_1}{\mu_1}$ $\Delta m_1 = \nu\mu_1\left(1 - \dfrac{1}{k}\right)$ Rezultat final: $\Delta m_1 = 28\ \text{g}$