Activity 7: Solve Me! 1.) Given: VI= 0.25L, T,= 283K, V2= 0.15L Unknown: $T_2 = ?$ Formula: $T_2 = \frac{T_1V_2}{V_1}$ Solution: T2 = 283.0.15 = 169.8K Answer: 169.8 K 2.) Given: V1=2.3L, T1=298, T2=313 Unknown: V2 =? Solution: 1/2 = 2.3.313 = 2,42L Answer: 12.42L

3.) Given: $V_1 = 15L$, $T_1 = 293K$, $T_2 = 318K$ Unknown: $V_2 = ?$ Formula: $V_2 = \frac{V_1 T_2}{T_1}$ Solution: $V_2 = 15 \cdot 318K = 16 \cdot 28L$ Answer: [16.28L]