

Chemistry 236 — Quiz 4
11/5/08 — Experiments 3 & 4

- A.**
1. $DT \propto m_A/m_{\text{wat}}$; $DT_2 = 2.570 \text{ K}$
 2. $s_{DT}/DT = 0.0043 = 0.43\%$ $\Delta s = 0.011 \text{ K}$ $\Delta 2.570(11) \text{ K}$
 3. $Dn_g = +4 \text{ mol}$ (note g for H_2O) $\Delta 9.916 \text{ kJ/mol}$
 4. water, pellet mass, DT ; see Study Problem 9, p 49 of Class Pak.
- B.**
1. 358.6 K or 85.4°C
 2. $7.65(14) \text{ kJ/mol}$
 3. See Study Problem 9, p 56 of Class Pak; also problems 7 & 8.