- 1) Maximum likelihood of  $p_{A}$ ,  $p_{C}$ ,  $p_{C}$ ,  $p_{T}$ 
  - a)  $p_A = n_A/n$
  - b)  $p_G = n_G/n$
  - c)  $p_C = n_C/n$
  - $d) p_T = n_T/n$