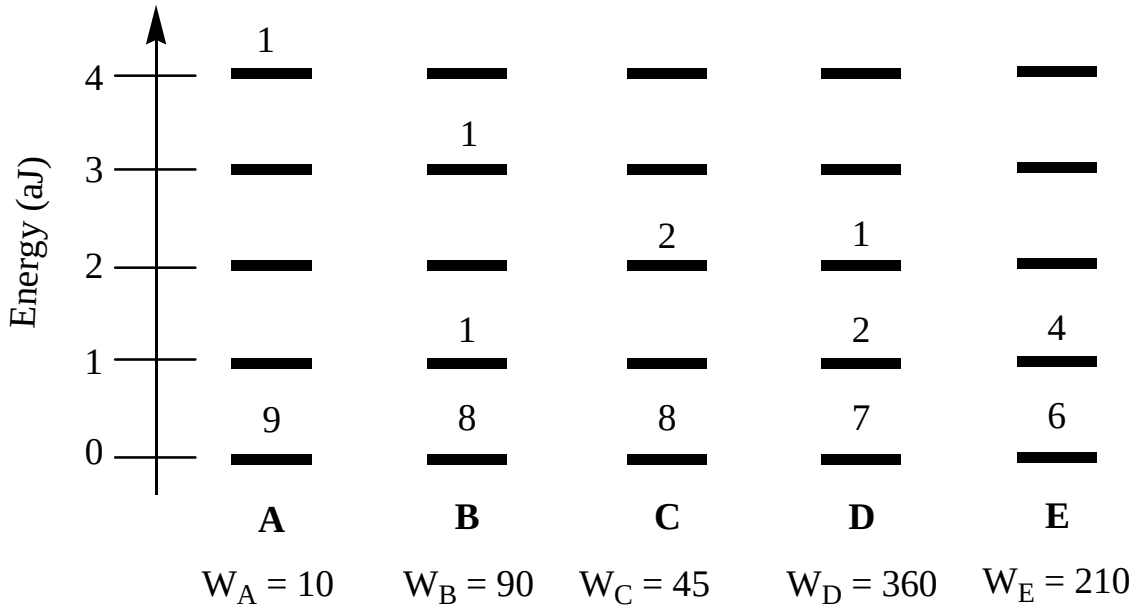
Accelerated General Chemistry
Chapter 7 Example Problem

1. Let's revisit an example from Chapter 2. We have ten particles which together possess 4 x 10^{-18} J (that is, 4 aJ) of energy. The particles have equally spaced energy levels 1 aJ apart. (This means that each particle can gain or lose 1 aJ of energy at a time.)



Calculate the change in entropy (in J K^{-1}) if the system moves from Distribution A to Distribution D.