### **The Output Layer of a Deep Neural Network**

How do we decide the output layer?

1. Here are the dimensions of our values
   * 1. ai ∊ ℝm
     2. Wi ∊ ℝmxn
     3. xi ∊ ℝnx1
     4. bi ∊ ℝm
     5. hi ∊ ℝm
2. Here is a quick sample
3. Here, it is possible to write the output function ŷ completely in terms of x
4. Here ŷ ∊ ℝK where K is the number of output units