## **Basics of Probability Theory**

What are the axioms of Probability

1. Consider the following sample space
2. For any event A,
   1. 0 <= P(A) <= 1
3. If A1, A2,...An are disjoint events, ie
   1. The probability of the union of all the events is equal to the sum of the individual probabilities of those events
4. If 𝛀 is the universal set containing all the events, then