

PROBABILITY

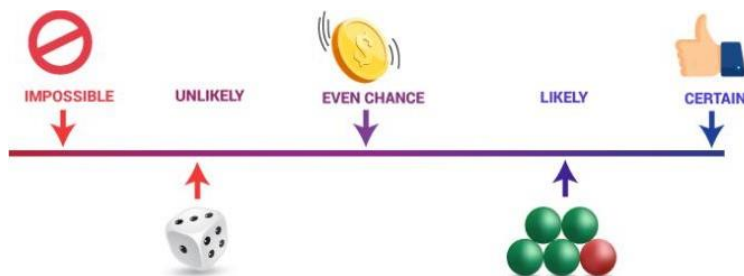


Definition:

Probability is the measure of the likelihood of an event to occur. Many events cannot be predicted with total certainty. We can predict only the chance of event to occur, how likely they are to happen, using probability.

Probability can range in between 0 to 1 ($0 \leq \text{probability} \leq 1$), where 0 probability means the event to be an impossible one and probability 1 indicates the certain event.

The Line of Probability-



- Tossing a coin, Sample Space (S) = {H, T}
- Rolling a die, Sample Space (S) = {1, 2, 3, 4, 5, 6}
- Sample Space is made up of Sample Points:
- Sample Point- It is one of the possible results
- Examples- Deck of Cards
 - 4 of hearts is a sample point
- General Probability Formula-