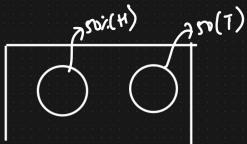
Probability -> Addition Rule (or)

Mutual Exclusive Events

Two events are Mufual Exclusive Events if they cannot occur at the same time.

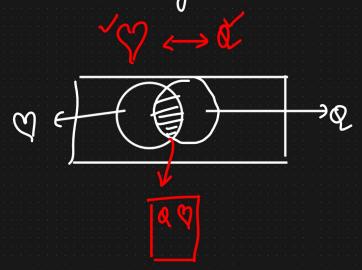
Eg: Flipping a coin SH&Tb



Non Merrol Exclusive

They can occur

Eg: Pick a card randomly from a dear of cards



Mutual Exclusion Elent

Eg 1 If I flip a boin, what is the probability of getting heads or tails?

$$P_{r}(H) = \frac{1}{2} = 0.5$$

Addition Rule for mutual exclusive Events

Sg: Rolling a dice. Probability of getting 2 or 3 or 6

Non Mutual Exclusive Event

Q) When picking landomly from a deck of cards, what is the probability of choosing a card that is heart or a Queen?

Ans) $P(Heart) = \frac{13}{52}$ $P(Qvein) = \frac{4}{52}$ $P(Qgreart) = \frac{1}{52}$

Addition Rule for non mutuel concluse events