

Probability Quiz Solutions

1. Theoretical Probability $P(A) = \frac{n(A)}{n(S)}$
2. Compliment $P(A') = 1 - P(A)$
3. Additive Principle $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
4. Independent And $P(A \cap B) = P(A) \times P(B)$
5. Mutually Exclusive Additive Principle $P(A \cup B) = P(A) + P(B)$
6. Mutually Exclusive And $P(A \cap B) = 0$
7. Conditional Probability $P(B|A) = \frac{P(A \cap B)}{P(A)}$