

Probability is a major topic in statistics that deals with the likelihood or chance that an event will occur. Although it is commonly used in games of chance, it has numerous applications on making inferential decisions in various fields, such as medicine, politics, genetics, and social sciences. The basic principles of probability were first formulated to analyze outcomes of games involving dice or cards. Activities such as rolling a pair of dice or drawing a card from a deck of 52 cards and analyzing the results are examples of *statistical experiments*.