

AP Statistics Study Guide

By Geoffrey Gao

Chapter 1 : Probability / Random Variables

1) PROBABILITY

- a) **Probability** – the likelihood that a particular event will occur
 - i) The **relative frequency** of an event is the number of times the event happened divided by the total number of trials.
 - ii) The probability of an outcome is always between 0 and 1
- b) **The Law of Large Numbers**
 - i) The concept that the relative frequency tends closer and closer to a certain number (the probability) as an experiment is repeated more and more times until infinity is the Law of Large Numbers
- c) **Complementary Events**
 - i) The probability that an event will not occur is equal to 1 minus the probability that the event will occur
 - ii) **Equation:** $P(\bar{A}) = 1 - P(A)$
- d) **General Addition Rule**
 - i) When two events are not mutually exclusive, the sum of their probabilities includes the shared occurrence. Thus you add the probabilities of each individual and subtract the probability of both
 - ii) **Equation:** $P(A \text{ and } B) = P(A) + P(B) - P(A \text{ and } B)$
- e) **Multiplication Rule**
 - i) The chance that two independent events both occur is the product of their separate probabilities
 - ii) **Equation:** $P(A \text{ and } B) = P(A) * P(B)$
- f) **Conditional Probability**
 - i) Conditional Probability is the probability of an event given that another event has occurred
 - ii) **Equation:** $P(A|B) = P(A \text{ and } B) / P(B)$
 - iii) You can reverse the conditional probability with Bayes' Formula
 - iv) **Equation:** $P(B|A) = P(A \text{ and } B) * P(B) / P(A)$
- g) **Independence / Disjoint**
 - i) Two events are **independent** if the occurrence of one event does not affect the probability of the other
 - (1) **Equation:** $P(B) = P(B|A)$

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