

Definitions:

The Addition Rule: pg. 252

Mutually Exclusive: pg. 253

Examples:

Genetics: # 2 pg. 255 In one generation of plants, $1/4$ of the plants have white flowers, $1/4$ of the plants are short, and $1/16$ of the plants are short and have white flowers. What is the probability that a random plant from this generation will be short or will have white flowers?

A Deck of Cards: One card is drawn at random from a deck of cards. What is the probability that the card will be

- (a) a spade or a king?
- (b) not be a space or a king?
- (c) a face card or an ace?
- (d) a king, queen, or ace?

Finding $P(A \text{ and } B)$: #15 pg. 266 One-third of the children in a class like hot dogs, $1/2$ like pizza, and $3/4$ like hot dogs or pizza. What is the probability that a randomly selected child in a class likes both hot dogs and pizza?