L26 Discrete Rendom Variables

Probability Distribution - distribution of possible outcomes and their probabilities Expected Value - The long run average of a random variable

Variance

Standard Deviation

Addition Rule

if x and y are independent, var (x+4) = Var (x) + Var (4)

Army Navy Problem continued ...

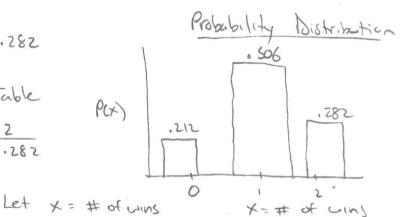


Why do linear transformations work?

- Some shape as the original distribution, we are only charges the scale

Army/ Navy Wins.

$$P(A) = .47$$
 $P(A') = 1 - P(A) = .53$
 $P(B) = .60$ $P(B') = 1 - P(B) = .40$





Calculate E (4), vor(4), SD(4)