

Stat 201: Statistics I

Chapter 5



Chapter 5

Discrete Probability Distributions

Section 5.1

Probability Distributions

Mean and var. of random variables in StatCrunch

- Stat → Calculators → Custom
- Under “Values in:” select the column which contains the random variable values
- Under “Weights in:” select the column which contains the random variable probabilities
- Click “Compute!”
- Mean and standard deviation will be displayed
- Variance can be calculated by squaring the standard deviation

Section 5.2

Binomial Probability Distributions

Binomial probabilities in StatCrunch

- Stat → Calculators → Binomial
- Enter sample size (“n”) and probability (“p”)
- Select appropriate comparison symbol and numeric value
- Click “Compute” if necessary
- Probability will be displayed

Section 5.3

Poisson Probability Distributions

Poisson probabilities in StatCrunch

- Stat → Calculators → Poisson
- Enter the rate value λ (“Mean”)
- Select appropriate comparison symbol and numeric value
- Click “Compute” if necessary
- Probability will be displayed