### Stat 201: Statistics I Week 6 StatCrunch





## Week 6 Binomial and Normal Distributions

# Section 6.1 Binomial Probability Distributions

### **Binomial probabilities in StatCrunch**

- Stat  $\rightarrow$  Calculators  $\rightarrow$  Binomial
- Enter sample size ("n") and probability ("p")
- Select appropriate comparison symbol and numeric value
- Click "Compute" if necessary
- Probability will be displayed

## Section 6.2 Normal Distributions

#### Probabilities of normal variables in StatCrunch

- Stat  $\rightarrow$  Calculators  $\rightarrow$  Normal
- Default mean and standard deviation correspond to standard normal
- For nonstandard distributions, enter mean and standard deviation
- To find probabilities of ranges, select "Between"
- To find a probability greater or less than a z-score, choose appropriate comparison symbol and enter z-score inside parentheses (i.e. " $P(X \le 1) = \dots$ ")
- To find a z-score corresponding to a probability, choose appropriate comparison symbol and enter probability *outside* parentheses (i.e. " $P(X \le ...) = 0.385$ ")
- Click "Compute"