Reading Homework 1

2019-08-31

1. Describe the difference between accuracy, precision, and bias.

2. How do these terms relate to analysis of wildlife populations and potentially affect management decisions?

3. How do you say the term $\binom{N}{n}$ and what is the value if $N = 10$ and $n = 4$?

4. What is a Maximum Likelihood estimate?

5. Desribe how we can use numerical methods to esimate the maximum likelihood graphically?

6. How do we use calculus to maximum a likelihood?

7. Suppose you sample 50 plots in a national park looking for a rare species. You find it 6 of the plots (and never miss it if it's present). What is your esimate of p, the proportion of plots that it would occur in across the park?

8. Calculate the 95% Confidence Interval for p using the formulas on page 36 of your textbook.

9. What is one thing you're struggling with in this chapter and want to talk about more or have it explained in a different way?

10. What is one thing that would help you better understand this chapter?