Mini\_homework

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* You want to know the density of fish in a set of experimental ponds:
* You observe the following counts in ten ponds: 5,6,7,3,6,5,8,4,4,3
* What is your process model?

My process model is

* What is your data model?

I thought that the poission distribution would be a good fit, because it’s sampleing in a fixed space.

Becuase I have mulitple data points:

* Solve for the analytical MLE

Taking the deriviative:

Aka the mean!

* What is the estimate for this population?

obs<-c(5,6,7,3,6,5,8,4,4,3)  
mean(obs)

## [1] 5.1

My estimate is 5.1 fish per pond.