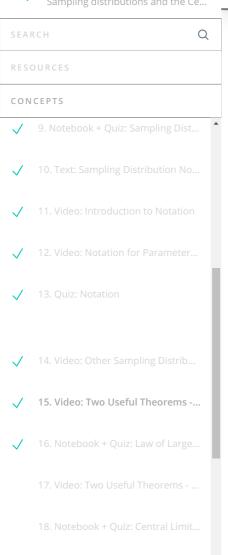
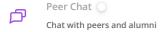


Lesson 10: Sampling distributions and the Ce...

Video: Two Useful Theorems - Law of Large Numbers



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Two important mathematical theorems for working with sampling distribution

- 1. Law of Large Numbers
- 2. Central Limit Theorem

The Law of Large Numbers says that as our sample size increases, the san to the population mean, but how did we determine that the sample mean w population mean in the first place? How would we identify another relationshi and statistic like this in the future?

Three of the most common ways are with the following estimation techniques

- Maximum Likelihood Estimation
- [Method of Moments Estimation][https://en.wikipedia.org/wiki/Method
- Bayesian Estimation

Though these are beyond the scope of what is covered in this course, these ar should be well understood for Data Scientist's that may need to understand h value that isn't as common as a mean or variance. Using one of these method estimate", would be a necessity.