

# **Econ 103: Statistics for Economists**

## Midterm 2 Postmortem

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# Test Statistics

- Mean: 75
- Median: 79
- Standard Deviation: 20

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## 2. $\bar{X} \neq \mu$ anymore

- $\mu$  is the true population mean. At the start of the course when we were dealing with **finite** samples, this was true.
- Now we are thinking of populations as **distributions** and samples are draws from that population. As a result, populations are conceptually **infinite**.



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  - Prove that  $E[aX + b] = aE[X] + b$  is asking you to prove linearity.

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  - Expectation has a very specific definition
7. Is  $Var(\sum_i X_i) = \sum_i Var(X_i)$  always true?

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6. **This is part of the exam and everyone signed the Code of Academic Integrity statement. I expect everyone to uphold it.**