Comparing Treatments with Data

Today's Standard

HSS.IC.B5 - Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.

Cues	Notes
Randomized Experiment Statistical Significance Simulations Comparing Treatments P-Value	Randomized Experiment: A study where subjects are randomly assigned to different treatments to eliminate bias. Statistical Significance: A measure of whether the observed difference between treatments is likely due to chance. Simulations: Using computer models to replicate the experiment and determine the likelihood of different outcomes. Comparing Treatments: Analyzing data to see if one treatment outperforms another. P-Value: A statistical metric that helps determine the significance of results.

Summary

This standard involves using data from randomized experiments to compare treatments and using simulations to assess the significance of differences. Key concepts include understanding statistical significance, p-values, and the role of simulations.