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Module 2 Honors

Quiz • 6 min

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Module 2 Honors

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1. Although the likelihood function is not always a product of $f(y_i|\theta)$ for $i = 1, 2, \ldots, n$, this product form is convenient mathematically. What assumption about the observations y allows us to multiply their individual likelihood components? **1 / 1 point**

   all yi's are independent

   Correct

2. One nice property of MLEs is that they are transformation invariant. That is, if $\hat{\theta}$ is the MLE for θ, then the MLE for $g(\theta)$ is $g(\hat{\theta})$ for any function $g(\cdot)$. **1 / 1 point**

   - Suppose you conduct 25 Bernoulli trials and observe 10 successes. What is the MLE for the odds of success? Round your