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- ▶ [Entrance Survey](#)
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- ▶ [Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates](#)
- ▶ [Module 4: Joint, Marginal, and Conditional Distributions & Functions of Random Variable](#)

Module 6: Special Distributions, the Sample Mean, the Central Limit Theorem, and Estimation > The Sample Mean, Central Limit Theorem, and Estimation > Understanding Estimation - Quiz

Understanding Estimation - Quiz

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Question 1

1/1 point (graded)

For all families of distributions, estimation is trying to determine the specific _____ of a distribution.

☐ a. Mean

☐ b. Variance

☒ c. Parameter ✓

☐ d. Maximum


Explanation

Estimation is trying to determine the specific parameter of a distribution, because this will give us a lot of information about the shape of the distribution. For example, for normal distributions, estimation will typically try to determine the mean and variance.


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Question 2

1/1 point (graded)

True or False: Estimators are the realizations of applying estimates to random samples.

☐ a. True

☒ b. False ✓

Explanation

The function of a random sample is the estimator. The realization of the function of the random sample is the estimate, so the estimates are the realizations of applying the estimators to random samples.

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Question 3

1/1 point (graded)

$\hat{\theta}$ is used to stand for: (Select all that apply)

☐ a. The parameter

☐ b. The sample mean

☐ c. The variance

☒ d. The estimator ✓

☒ e. The estimate ✓



Explanation

The estimator and the estimate could both be represented by $\hat{\theta}$. The parameter they are estimating could be represented by θ . The estimator and estimate are $\hat{\theta}$, because they are estimating the parameter.

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Discussion

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