



Knowledge Check

Knowledge Check

1

A statement made about a population for a testing purpose is called:

- A. Statistics
- B. Hypothesis
- C. Parameter estimate
- D. Test statistics



Knowledge Check

1

A statement made about a population for a testing purpose is called:

- A. Statistics
- B. Hypothesis
- C. Parameter estimate
- D. Test statistics



The correct answer is **B**

A hypothesis in statistics is a proposed explanation or assumption about a population parameter made to test through statistical analysis.

Knowledge Check

2

What does critical region lead to?

- A. Acceptance of the null hypothesis
- B. Rejection of null hypothesis
- C. Depends upon whether the test is one- or two-sided
- D. Depends on the sample size



Knowledge Check

2

What does critical region lead to?

- A. Acceptance of the null hypothesis
- B. Rejection of null hypothesis
- C. Depends upon whether the test is one- or two-sided
- D. Depends on the sample size

The correct answer is **B**

The critical region leads to the rejection of the null hypothesis.



Knowledge Check

3

In the context of hypothesis testing, what does a Type I error represent?

- A. Accepting a true null hypothesis
- B. Rejecting a false null hypothesis
- C. Rejecting a true null hypothesis
- D. Accepting a false null hypothesis



Knowledge Check

3

In the context of hypothesis testing, what does a Type I error represent?

- A. Accepting a true null hypothesis
- B. Rejecting a false null hypothesis
- C. Rejecting a true null hypothesis
- D. Accepting a false null hypothesis

The correct answer is **C**

A Type I error occurs when the null hypothesis is true but is rejected incorrectly. It's a false positive.





Thank You