Knowledge Check

What is the mode of the given data 11,13,13,17,19,23,211,13,13,17,19,23,25?

A. 11

B. 13

C. 17

D. 23

What is the mode of the given data 11,13,13,17,19,23,211,13,13,17,19,23,25?

A. 11

B. 13

C. 17

D. 23

The correct answer is **B**

The value that appears most frequently; here, the number 13 is repeated multiple times.

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

A.   Statistics

B.   Hypothesis

C.   Level of Significance

D.   Test Statistics

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A.   Statistics

B.   Hypothesis

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The correct answer is **B**

Hypothesis

E(X) = λ is used for which distribution?

A.   Binomial distribution

B.   Poisson's distribution

C.   Bernoulli's distribution

D.   Laplace distribution

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D.   Laplace distribution

The correct answer is   **B**

In Poisson's distribution, a positive constant called λ is used, which is the mean and variance of the distribution. The Poisson distribution predicts how many of a certain type of event will occur in a bounded area or during a given period, provided that the events occur independently and cannot occur simultaneously. The events are sometimes called "outcomes".

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Knowledge Check 4	Calculate the range of the given data sets: 7,47,8,42,47,95,42,96,2

A.   6

B.   94

C.   71

D.   84

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A.   6

B.   94

C.   71

D.   84

The correct answer is **B**

Range = Maximum Value - Minimum Value

Here, the Maximum value in the data sets = 96, and the Minimum value = 2, therefore, Range = 96-2 = 94

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 sided or two sided

D.   Depends on the sample size

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C.   Depends upon whether the test is one sided or two sided

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The correct answer is   **B**

Critical region leads to rejection of null hypothesis.

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