



## Knowledge Check

**Knowledge  
Check  
1**

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



## Knowledge Check

1

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.

**Knowledge  
Check  
2**

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

- A. Statistics
- B. Hypothesis
- C. Level of Significance
- D. Test Statistics



## Knowledge Check

2

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

- A. Statistics
- B. Hypothesis
- C. Level of Significance
- D. Test Statistics



The correct answer is **B**

**Hypothesis**

## Knowledge Check

3

$E(X) = \lambda$  is used for which distribution?

- A. Binomial distribution
- B. Poisson's distribution
- C. Bernoulli's distribution
- D. Laplace distribution



## Knowledge Check

3

$E(X) = \lambda$  is used for which distribution?

- A. Binomial distribution
- B. Poisson's distribution
- C. Bernoulli's distribution
- D. Laplace distribution



The correct answer is **B**

In Poisson's distribution, a positive constant called  $\lambda$  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".

**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





## 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



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 =  $96 - 2 = 94$**

**Knowledge  
Check  
5**

**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



## Knowledge Check

5

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



The correct answer is **B**

**Critical region leads to rejection of null hypothesis.**