



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 twice.

2

Find the variance if the probability of hitting an object is 0.8.

A. 0.18

B. 0.16

C. 0.14

D. 0.12



Find the variance if the probability of hitting an object is 0.8.

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- B. 0.16
- C. 0.14
- D. 0.12



The correct answer is **B**

Given p = 0.8,

$$q = 1 - p$$

q = 1 - 0.8 = 0.2, Therefore, mean = q = 0.2 and we know that variance = pq = (0.2)(0.8) = 0.16

3

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

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







3

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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

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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



4

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

Α. (

B. 94

C. 7

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

5

If K is a variance between 0 and 4. Find the value of K(X2)

A. 32

B. 64

C. 27

D. 9



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If K is a variance between 0 and 4. Find the value of K(X2)

A. 32

B. 64

C. 27

9 D.



The correct answer is **B**

Integrating $f(x) = X^2$ from 0 and 4 we get the value of $K(X^2) = 64$