1) The runs scored by a batsman in 5 ODIs are 31,97,112, 63, and 12. The standard deviation is

24.79

1. 23.79
2. 25.79
3. 26.79

**Answer:** Option c

**Explanation:**

Here, first, we need to find mean

Statistics MCQs

= 31+97+112+12= 315/5 = 63

**Standard deviation** = [1/n (x(n)-mean)2]0.5

= 25.79

2) Find the mode of the call received on 7 consecutive day 11,13,13,17,19,23,25

1. 11
2. 13
3. 17
4. 23

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**Answer:** Option b

**Explanation:** Mode = The value that appears most frequent; here, the number 13 repeated twice.

3) Find the median of the call received on 7 consecutive days 11,13, 17, 13, 23,25,19

1. 13
2. 23
3. 25
4. 17

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**Answer:** Option d

**Explanation:**

Statistics MCQs

Where,

n = number of terms = 7

The median is the middle value of the data sets, so first, we need to arrange the number in ascending order 11,13,13,17,19,23,25

the middle one is 7+1/2 = 4th number

so, the 4th number is 17

4) Find the mode and median of the 9 consecutive number 12,7,8,14,21,23,27,7,11

12,9

1. 7,9
2. 7,12
3. 11,9

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**Answer:** Option c

**Explanation:** Mode = The value that appears most frequent = 7 which is repeated twice. And,

Statistics MCQs

Where n = number of terms = 9

The median is the middle value of the data sets, so first, we need to arrange the number in ascending order 7,7,8,11,12,14,21,23,27

the middle one is 9+1/2 = 5th number

so, the 5th number is 12

5) When the Mean of a number is 18, what is the Mean of the sampling distribution?

1. 21
2. 18
3. 27
4. 23

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**Answer:** Option b

**Explanation:** In sampling distribution, the Mean of a number is equal to the Mean of the sampling distribution; hence the Mean of the number is 18 the Mean of the sampling distribution is 18.

6) If the probability of hitting an object is 0.8, find the variance

1. 0.18
2. 0.16
3. 0.14
4. 0.12

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7) If the probability that an object dropped from a certain height will strike the ground is 80 percent and if 12 objects are dropped from the same place, find the mean and variance.

1. 9.6,1.92
2. 8.6,1.92
3. 9.6,1.82
4. 8.6,1.82

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8) Find the mean of tossing 4 coins

1. 1
2. 2
3. 3
4. 4

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**Answer:** Option b

**Explanation:**

Here, p = ½ and q = ½

N = 4

Therefore, **Mean** = **np** = 4\*1/2 = 2

9) Variance of a constant 'x' is

1. 0
2. x/2
3. x
4. 1

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**Answer:** Option a

**Explanation:**

We know that, V(a) = **E (x2) - (E(a)2)**

= x2- x2 = 0

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

1. Binomial distribution
2. Poisson's distribution
3. Bernoulli's distribution
4. Laplace distribution

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**Answer:** Option b

**Explanation:** 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" or "observed occurrences."

11) The Mean of a constant 'x' is

1. 0
2. x/2
3. x
4. 1

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**Answer:** Option c

**Explanation:** The mean of the constant x is x.

12) If P(x) = 0.8 and x = 3, then find the value of E(x)

1. 2.6
2. 2.8
3. 2.2
4. 2.4

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**Answer:** Option d

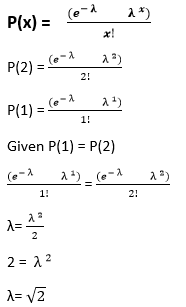
**Explanation:** We know that, E(x) = x P(x) = 0.8\*3 = 2.4

13) If P (1) = P (2) in Poisson's distribution, find the value of mean

  
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**Answer:** Option a

**Explanation:** We know the formula of Poisson's distribution,



14) If P (1) = λ P (5) in Poisson's distribution, find the value of mean

1. 33.81
2. 53.81
3. 63.81
4. 43.81

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**Answer:** Option d

**Explanation:** We know the formula of Poisson's distribution,

