

Determine whether the given description corresponds to an observational study or experiment

In a study of 418 students with a particular disease, the subjects were monitored with an EEG while asleep

Does the given description correspond to an observational study or an experiment

A The given description corresponds to an observational study

B The given description corresponds to an experiment

C The given description does not provide enough information to answer the question

## **Answer:**

The answer is A) The given description corresponds to an observational study.

## **Step-by-step explanation:**

We can know that is an observational study because the definition of a observational studies are where researchers observe the effect of a risk factor, diagnostic test, treatment or other intervention without trying to change who is or isn't exposed to it.

In this case the researches are just monitoring the sleep of the students without altering anything.

Which of the following is NOT a property of the chi-square distribution? Choose the correct answer below.

- A. The chi-square distribution is different for each number of degrees of freedom.
- B. The mean of the chi-square distribution is 0.
- C. The values of chi-square can be zero or positive, but they cannot be negative.
- D. The chi-square distribution is not symmetric.

**Answer:**

B. The mean of the chi-square distribution is 0.

What conclusion is appropriate if a chi-square test produces a chi-square statistic near zero?

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**5.0**  **Answer**

expected values are close to observed values, tend to favor the null hypothesis; existence of relationship is not supported, or like, departure from expectation is not supported.

A chi-squared curve is symmetric about 0

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5.0 ★ Answer



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**Answer:**

The answer is false

For chi-square distributions, as the number of degrees of freedom increases, does any skewness increase or decrease? do chi-square distributions become more symmetric (and normal as the number of degrees of freedom becomes larger and larger?

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**1**  **Answer**

A.) Skewness to the right decreases.

B.) Yes.

Explain why chi-square goodness-of-fit tests are always right tailed. Choose the correct answer below.

A. The chi-square goodness-of-fit tests are always right tailed because the chi-square distribution is skewed to the right.

B. The chi-square goodness-of-fit tests are always right tailed by convention. A left tail test will always yield the same results.

C. The chi-square goodness-of-fit tests are always right tailed because negative values of the test statistic are not important.

D. The chi-square goodness-of-fit tests are always right tailed because the numerator in the test statistic is squared, making every test statistic, other than a perfect fit, positive.



Answer:

Option D

Step-by-step explanation:

The chi-square goodness-of-fit tests are always right tailed because the numerator in the test statistic is squared, making every test statistic, other than a perfect fit, positive.

The idea behind using this chi square goodness of fit test is to see if the sample comes from the population with the claimed distribution and also that if the observed frequency is closer to the expected frequency, the square of the deviations will be small and positive.