- 5. A type I error occurs when the
 - a. null hypothesis is accepted when it is false.
 - b. null hypothesis is rejected when it is true.
 - c. sample size is too small.
 - d. effect size (γ) is not defined in advance.
- 6. A type II error occurs when the
 - a. null hypothesis is accepted when it is false.
 - b. null hypothesis is rejected when it is true.
 - c. sample size is too small.
 - d. effect size (γ) is not defined in advance.

- 8. A researcher conducts a small study and finds that no statistically significant relationship exists between smoking and lung cancer. This is most likely
 - a. a type I error.
 - b a type II error.
 - c. both a and b.
 - d. none of the above.
- 9. Which of the following is more likely to contain the "true" population value of the mean?
 - a. A 90% confidence interval (CI).
 - b. A 95% CI.
 - 9 A 99% CI.
 - d. All of the above.

- 10. If a statistical test is significant, it means that
 - a. it has important clinical applications.
 - b. the study had acceptable power.c. the null hypothesis was rejected.

 - d. all of the above are true. \(\mathbb{L}\)



- 2. The α -level is defined by
 - a. the probability of making a type I error.
 - b. the probability of making a type II error.
 - c. the researcher at the start of a study.
 - d. a and c only.

- 1. The null hypothesis states
 - a. the expected direction of the relationship between the variables. b. that no relationship will be found.

 - c. that a relationship will be found, but it will not state the direction.
 - d. none of the above.

