

Question 1

You are evaluating two groups, with 50 people per group and formed with random assignment, to see if listening to music when learning a list of words improves later recall of the words. Because you will then rank the participants according to the number of recalled words, and you know the groups are not normally distributed, which of the following tests is most appropriate to determine group differences?

- A) Wilcoxon T Test
 - B) Kruskal-Wallis H Test
 - C) Mann-Whitney U Test
 - D) rank sums test
 - E) chi-square test for two levels of a single nominal variable
- Answer: <https://biology-forums.com/index.php?topic=668804>

Question 2

This threat to internal validity refers to problems in how groups were formed such that the groups are not equal before the experiment.

- A) selection
- B) maturation
- C) testing
- D) history

Answer: <https://biology-forums.com/index.php?topic=668620>

Question 3

What does the "source" in the ANOVA source table refer to?

- A) source of the different kinds of statistical tests
- B) source of the different kinds of variation
- C) the type of computer package used to produce the ANOVA table
- D) The term is leftover from early psychological research and has little meaning today.

Answer: <https://biology-forums.com/index.php?topic=668415>

Question 4

In descriptive statistics, the number that occurs most frequently is called the

- A) mode
- B) mean
- C) harmonic mean
- D) median

Answer: <https://biology-forums.com/index.php?topic=667883>

Question 5

In a normal distribution, the mean, median, and mode

- A) all have the same value
- B) are determined by the standard deviation of the scores
- C) should have different values
- D) are determined from the variance of the scores

Answer: <https://biology-forums.com/index.php?topic=667950>

Question 6

This nonparametric test is used when you have ordinal data, two independent groups, and the groups are relatively large ($n = \text{more than } 20$).

- A) chi-square test for two levels of a single nominal variable
- B) Mann-Whitney U Test
- C) Kruskal-Wallis H Test
- D) rank sums test
- E) Wilcoxon T Test

Answer: <https://biology-forums.com/index.php?topic=668802>

Question 7

Where would you tell readers about the computer software program you used in your research?

- A) procedure subsection of the method section
- B) introduction

- C) apparatus subsection of the method section
D) participant subsection of the method section

Answer: <https://biology-forums.com/index.php?topic=669061>

Question 8

In a normal distribution, what percentage of the scores falls between the mean and one standard deviation below the mean?

- A) 34.13%
B) 13.59%
C) 50%
D) 2.15%

Answer: <https://biology-forums.com/index.php?topic=667951>

Question 9

The appropriate statistical test to evaluate the difference between the means of two groups formed with random assignment is the

- A) factorial ANOVA for independent groups
B) t test for independent samples
C) t test for correlated samples
D) two-way ANOVA for independent groups

Answer: <https://biology-forums.com/index.php?topic=668290>

Question 10

You are interpreting the printout for a t test from a computer-based statistical package. The probability associated with the Fmax test is .067. This result indicates you have

- A) homogeneity of variance
B) a nonsignificant result for the t test
C) heterogeneity of variance
D) a significant result for the t test

Answer: <https://biology-forums.com/index.php?topic=668308>

Question 11

A statistical value for an entire population is called a(n)

- A) standard deviation
B) parameter
C) mean
D) population datum

Answer: <https://biology-forums.com/index.php?topic=668092>

Question 12

You're reading the latest issue of Rolling Stone and learn the average person in the United States under 25 years old downloads seven songs per month from the Internet. This piece of information is best described as a(n) _____ of the under 25 population.

- A) correlation
B) factor
C) parameter
D) indicator

Answer: <https://biology-forums.com/index.php?topic=668094>

Question 13

Which of the following is not a potential problem when using archival data?

- A) validity of data drops significantly with time
B) records may not have survived over time
C) data may have been selectively recorded
D) unsure who generated data originally

Answer: <https://biology-forums.com/index.php?topic=668968>

Question 14

In a multiple-groups design, the groups that receive the IV are called _____.

- A) IV groups

- B) comparison groups
- C) control groups
- D) treatment groups

Answer: <https://biology-forums.com/index.php?topic=668334>

Question 15

"Rich people drive expensive cars. Billy is a rich person, therefore he must drive an expensive car." This statement is an example of

- A) inductive logic
- B) tenacity
- C) a deductive syllogism
- D) a logical syllogism

Answer: <https://biology-forums.com/index.php?topic=667778>

Question 16

Rachel ran a 2×2 ANOVA and found a significant main effect for one of the IVs, but not the other. She also did not find a significant interaction. What should Rachel do next?

- A) ignore the main effect because the interaction was not significant
- B) conduct post hoc comparisons
- C) nothing, post hoc comparisons are not appropriate for a 2×2
- D) retest the interaction

Answer: <https://biology-forums.com/index.php?topic=668578>

Question 17

When you buy a cola product because a famous sports figure tells you in advertisements that it's refreshing, you are gathering knowledge about the product through which technique?

- A) authority
- B) reason and logic
- C) experience
- D) tenacity

Answer: <https://biology-forums.com/index.php?topic=667776>

Question 18

When an extraneous variable is found to have affected the DV in a study, we say the experiment is

- A) controlled
- B) valid
- C) confounded
- D) unbalanced

Answer: <https://biology-forums.com/index.php?topic=668226>

Question 19

What is the mode for the following set of numbers: 1, 2, 4, 7, 10, 15, 20

- A) 7
- B) 1
- C) 19
- D) 20
- E) There is no mode.

Answer: <https://biology-forums.com/index.php?topic=667886>

Question 20

A recent study examining the effects of color on mood revealed that dark blues improved mood in men more than for women, but that dark greens improved mood more for women than men. Besides giving you some ideas for painting your house, this finding best represents what type of result?

- A) measured
- B) main effect for color
- C) ex post facto
- D) interaction

Answer: <https://biology-forums.com/index.php?topic=668548>