

Statistics-WORKSHEET 6

Q1 to Q9 have only one correct answer. Choose the correct option to answer your question.

Which of the following is the correct formula for total variation?a) Total Variation = Residual Variation - Regression Variation

	b) Total Variation = Residual Variation + Regression Variation
	c) Total Variation = Residual Variation * Regression Variation
	d) All of the mentioned
2.	Collection of exchangeable binary outcomes for the same covariate data are calledoutcomes.
	a) random
	b) direct
	c) binomial
	d) none of the mentioned
3.	
٥.	a) 2
	b) 3
	c) 4
	d) None of the mentioned
4.	If Ho is true and we reject it, then it is called:
	(a) Type-I error
	(b) Type-II error
	(c) Standard error
	(d) Sampling error
5.	Level of significance is also called:
	(a) Power of the test
	(b) Size of the test
	(c) Level of confidence
	(d) Confidence coefficient
6.	The chance of rejecting a true hypothesis decreases when sample size:
	(a) Decreases
	(b) Increases
	(c) Both of them
	(d) None of them
7.	Which of the following testing is concerned with making decisions using data?
	(a) Probability
	(b) Hypothesis
	(c) Causal
	(d) None of the mentioned
8.	What is the purpose of multiple testing in statistical inference?
	(a) Minimize errors
	(b) Minimize false positives
	(c) Minimize false negatives
0	(d) All of the mentioned
9.	Normalized data is centered at and has unit equal to standard deviations of the original data.
	(a) 0 (c) 1 (b) 5 (d) 10
)1 4	Oand Q15 are subjective answer type questions, Answer them in your own words briefly.
	0. What Is Bayes' Theorem?
	1. What is z-score?
	2. What is t-test?



- 13. What is a percentile?14. What is ANOVA?
- 15. How can ANOVA help?