Republic of the Philippines
BATANGAS STATE UNIVERSITY
The National Engineering University
Lipa Campus
A. Tanco Drive, Marawoy, Lipa City, Batangas, Philippines 4217
Tel Nos.: (+63 43) 980-0385; 980-0387; 980-0392 to 94 loc. 3130
E-mail Address: cics.lipa@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Informatics and Computing Sciences

Quiz 1
Math 408 – Data Analysis
First Semester, AY 2024 – 2025

Name: _____   **Score:** _____

Section: _____   **Date:** _____

General Directions:

1. ***BOX*** your final answers
2. Answers must be ***complete***.
3. ***Unanswered questions*** will be marked wrong.
4. ***NO SOLUTION*** will be marked wrong.
5. ***Use short bond paper***
6. ***Write the problems in your answer sheet***

1. The average weight of all residents in town ABC is 168 lbs. A nutritionist believes that true mean to be different. She measured the weight of 36 individuals and found the mean to be 169.5 lbs with a standard deviation of 3.9. (a) State the null and alternative hypotheses. (b) At 97 % confidence level, is there enough evidence to discard the null hypothesis? (Use the p-value method).

2. A Telecom service provider claims that individual customers pay on an average Php 400.00 per month with standard deviation of Php 25.00. A random sample of 50 customers' bills during a given month is taken with a mean of 250 and standard deviation of 15. What to say with respect to the claim made by the service provider?