

UNIVERSITY OF MAKATI


College of Computer Science

ELECTIVE 1 – Week 14 Assignment (Group Activity)

Scenario:

- Adult domestic cats of a certain breed are said to have an **average weight of 3.5 kilograms**. A feline enthusiast disagrees and collects a **sample of 73 weights** of cats of this breed. From her sample, she calculates a **mean of 3.97 kilograms** and a **standard deviation of 2.21 kilograms**. Perform a hypothesis test to test her claim that the **true mean weight μ is not 3.5 kilograms** by setting up the appropriate hypothesis, carrying out the analysis, and interpreting the **p-value (assume the significance level is $\alpha = 0.05$)**

Problem Solving (15 points with rubrics)

Problem Solving 				
	Excellent 5 pts	Good 4 pts	Average 3 pts	Fair 2 pts
Content	Excellent Appropriate content is used for each problem. Student clearly understands the mathematical concepts.	Good Appropriate content is used for each problem. Student shows some understanding of the mathematical concepts.	Average Appropriate content may be used. Student shows little understanding of the mathematical concepts.	Fair Appropriate content is not observed. Student does not demonstrate an understanding of the mathematical concepts.
Solution/Organization	Excellent The solution is written in clear and coherent way. Solution is presented in a very organized manner.	Good The solution is written in clear and coherent way.	Average The solution is not written in clear and coherent way.	Fair The solution is not written in clear and coherent way, or may not be observed.
Accuracy	Excellent Solution is very clear and accurate.	Good Solution is clear and accurate.	Average Solution is somehow clear and correct.	Fair Solution is not clear and may not be correct.

- Interpret your calculated result from Question No.1.

Essay (10 points with rubrics)

Rubrics for Essay			
	Excellent 5 pts.	Good 3 pts.	Approaching standards 2 pts.
Ideas and Content	What you are writing about is clear and well-expressed, including specific examples to demonstrate what you learned. Well done!	What you are writing about is clear. You answered the question. Some support may be lacking, or your sentences may be a bit awkward. Overall, a decent job.	You put thoughts into this, but there is no real evidence of learning. More specific information is needed or you need to follow the directions more closely.
Sentence Fluency	Sentences are complete and they connect to one another easily when they are read out loud. Your writing 'flows.'	Sentences are complete and able to be understood.	Some sentences are complete and easy to understand. Others require some work.