**Math 105 – Inferential Statistics Concept Map**

**Assignment:** Prepare a Concept Map for Inferential Statistics. This is based on what you have learned. *You are not allowed to consult with other professors, tutors, or students*. You may use your notes and book to help you. All work submitted must be your own. Use the information below to help you prepare your map. You may use a computer program to help you draw your map, or you may neatly hand draw it. Your map must fit on one side of an 11 x 17 sheet of paper. You may use a smaller sheet of paper if you would like, but your map can only be on one side.

Consider the following list of ideas and topics from Inferential Statistics:

|  |  |
| --- | --- |
| 1. Causation | 12. Population |
| 2. Confidence interval | 13. Probability |
| 3. Confounding variables | 14. Random sample |
| 4. Convenience sample | 15. Sample |
| 5. Correlation | 16. Sample size |
| 6. Generalizations | 17. Significance |
| 7. Inferences | 18. Stratified sample |
| 8. Inferential statistics | 19. Study |
| 9. Likely/unlikely/possible | 20. Summary statistics (e.g., mean, median, mode)  |
| 10. Margin of error | 21. Systematic sample |
| 11. Natural variation | 22. True population value |

The above list is meant as a starting point only. You may add other concepts/ideas as you feel appropriate. You also are not expected to use **every** concept from the list above. I expect you to have at least 10 concepts on your map.

In addition, I would like to see at least 2 different activities/simulations from the statistics unit of class referenced on your map.

Remember to link your ideas using arrows and linking phrases. Sample linking phrases are given below. You are encouraged to use your own linking phrases.

|  |  |
| --- | --- |
| * This tells us…
 | * This helps us…
 |
| * As a result…
 | * This lets us…
 |
| * Helps us predict…
 | * This is a part of…
 |
| * This connects because…
 | * This makes it easier to…
 |
| * Because of …
 | * Is a type of…
 |
| * Is caused by…
 |  |

Refer to the Rubric for Concept Maps (available on my website) to see if your concept map is complete.