STATISTICS 641 - ASSIGNMENT 1

DUE DATE: 11:59pm (CDT), WEDNESDAY, September 8, 2021

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Please TYPE your name and email address. Often we have difficulty in reading the handwritten names and email addresses. Make this cover sheet the first page of your Solutions.

STAT 641 H.W. 1. Due 9/8/2021

- 1) There were two major problems in the initial analysis of 0-ring failures data:
 - 1) The analysts dad not use all the data they had cavailable to Kin.

 Specifically, they did not include, in this graphs, the temps

 For launches in which the were no o-ring Failures.
 - @ An extenpolation was required as the lamen temp of 31°F was outside the range of premoss bunch temps.
- 2) One of the most common misrepresentations of statistical findings is concluding that correlation means causation. In other words, finding a statistically significent relationship between two variable and cancillating that a change in the explanatory variable.

 Courses a change in the response variable.
- 3) Stody 1: (i) Experimental, (ii) comperative, ((iii) RV-Hert Asserte EV-Diet

 stody 2: (ii) observational, ((iii) descriptive

 otody 3: (ii) observational, ((iii) descriptive

 stody 4: (() observational, ((iii) comperative, ((iiii) RV-Boby Weight EV-during regionary.
 - 4) a) Suptemate Sompling.
 - (s.) Simple Rondon Sample
 - a) Stratified Randon sampling of
 - di) statified with stage cluster sampling
- . S) L) Li) survey, Lic) descriptive
 - b) (i) retrospective, (iii) comparative, (iii) EVs Age, # pregnacies, smoke during pregnacy, President
 - c) (1) survey; (ii) description
 - d.) (i) retrospection (iii) description

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		S(0)-most
The state of the s	2	0 - least
7.)	C	. Stratified b/c we are dividing the USA into different regions (or strata)
- Special Control of the Control of		The POLET plants represent our charlers. Random Ole we wounderly sched the puerplus
8)	D	First choter is the 180 carries which were ordarly scheless second
		chister is the doctors.
9.)	B	strah Red DIC we dinded East Texas into 35 regions (our strates). Each of
		The 15 trees in the region is a closer where multiple measuremel are taken con each of K danged brook
(.0)	C	strah Fred bk we are during the coast of Texas who its 25 canhez (the strake)
		random ble we we randomly saiply 50 horses from each carly.

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