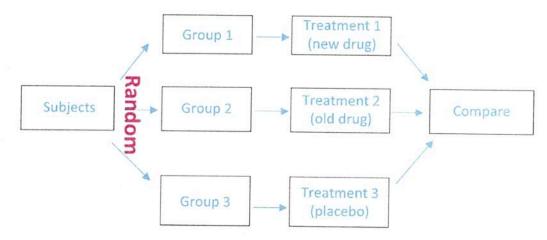
**Instructions**: Show all work. Read each problem carefully and be sure to answer all parts of all questions. (Check for a page-2.) If you use Excel to answer parts of the questions, you must submit your Excel file along with the quiz solutions. Include the final answers in the main quiz document. Do not only say "see Excel" for answers. Exact answers are preferred unless the problem tells you specifically to round.

1. Redraw the Experimental Diagram below to reflect a block design.



2	-					
3.	<ol> <li>For each of the variables below, circle the correct set of descriptors (one each i-iii)</li> <li>a. Vehicle paint colors</li> </ol>					
		i.	Categorical	quantitative		
		ii.	Nominal	ordinal	interval	ratio
		iii.	Discrete	continuous	NA	
b. Earthquake strength on the Richter scale						
		iv.	Categorical	quantitative		
		V.	Nominal	ordinal	interval	ratio
		vi.	Discrete	continuous	NA	
	c. Amount of student loan debt					
		vii.	Categorical	quantitative		
		viii.	Nominal	ordinal	interval	ratio
		ix.	Discrete	continuous	NA	

2. Describe the process of systematic sampling. How is it carried out? Give an example of when it

could be applied.