Topic: Types of Sampling

Date:

What am I learning today?

Main Ideas/ Questions Biased Sampling Review	Notes Read each scenario and determine if the results would be bias.		
	Sample: All students in the last 3 rows		
	Response: GPA		
	Population: All users of a hotel	TripAdvisor Reviewer Highlights	
	Sample: Users who took the time to		
	post a review	Visitor rating	
		Response: Hotel quality	Excellent 128 Very good 141
		Average 98	
		Terrible 51	
Types of Sampling	How do we reduce bias in our data?	?	
	Simple Random Sample (SRS) – Consists of individuals from a population		
	chosen in such a way that every individual has an chance to be		
	selected. You can use a Random Number Table or a calculator to generate		
	random numbers to select from a popul	ation.	
	Systematic Random Sample – Consists of individuals from a population		
	chosen by starting at a point	and using a periodic interval	
	(i.e every 5 people)		

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<u>Main Ideas/</u> Questions		Notes Stratified Random Sample – Consists of individuals from a population that is	
Types of Sampling (Cont.)		based on the members' attributes or characteristics (i.e boys & girls)	
		Dused of the members dutibutes of characteristics (i.e boys & girls)	
Table of Ra	ndom Digits	1. We use random lines using the Table B. If they don't give you a line to use,	
Alabama	Montana**	you can use ANY line.	
Alaska**	Nebraska**	,	
Arizona**	Nevada**	2. Label your population – assign a number to represent each individual.	
Arkansas**	New Hampshire	EXAMPLE: 5 individuals – use single digits, only use numbers 1-5	
California**	New Jersey	25 individuals – use double digits, only use numbers 01-25	
Colorado**	New Mexico**		
Connecticut	New York	 138 individuals – use triple digits, only use numbers 001-138 3. You must SKIP numbers that don't represent an individual and numbers that have already been used. Example: There has been much talk about teenagers' use of social media. Teens are exposed more and more to inappropriate content. Should stricter controls be imposed on social media apps that teens use? If each state nominates 1 teen to represent them. 	
Delaware	North Carolina		
Florida	North Dakota**		
Georgia	Ohio		
Hawaii**	Oklahoma**		
Idaho**	Oregon**		
Illinois	Pennsylvania		
Indiana	Rhode Island		
Iowa**	South Carolina	SRS of size 8	
Kansas**	South Dakota**	38573 01324 37930 43524 38301 51723	
Kentucky	Tennessee		
Louisiana**	Texas**		
Maine	Utah**	Systematic of size 3 (Use an interval of 4)	
Maryland	Vermont	63528 78544	
Massachusetts	Virginia		
Michigan	Washington**		
Minnesota**	West Virginia	<u>Stratified of size 4 – East/West of the Mississippi River</u>	
Mississippi	Wisconsin	Line:	
Missouri**	Wyoming**		