

Name	Date	Period	SCORE:
	Study Design		/

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	The log 89% a	nario below, identify the <i>population</i> , <i>sample</i> and <i>parameter</i> of interest. cal school board wants to get parents to evaluate teachers. They select 100 parents and find that pprove of their child's teacher.
	a.	Population:
	b.	Sample:
	c.	Parameter of Interest:
2.	school	wants to know the average height of the students in his school. There are 753 students in his high; he finds the heights of 52 of them. Population:
	b.	Sample:
	c.	Parameter of Interest:
3.	He wa	ernment official is interested in the percent of people at JFK airport that are searched by security tches 300 people go through security and observes 42 that are searched. Population:
	b.	Sample:
	c.	Parameter of Interest:
For ea	och scen	nario, identify what type of sampling was used to obtain the sample. Explain whether or not
		sample will be representative of the population it was sampled from. Describe one way to
		uple more representative.
4.		surveys the first 60 students in the lunch line to determine if students at the school are satisfied chool lunch.
		Type of sample:
	b.	Representative? Explain.
	c.	How would you make it more representative?

5.	 Elvira selects every 5th student in the lunch line to determine if students at the school are sat school lunch. a. Type of sample: 	
	b. Representative? Explain.	
	c. How would you make it more representative?	
6.	Elvira randomly selects 7 different tables in the lunchroom and surveys every student on the table determine if students at the school are satisfied with school lunch. a. Type of sample:	e to
	b. Representative? Explain.	
	c. How would you make it more representative?	
7. Elvira assigns every student in the school a number and randomly selects 60 students to s determine if students at the school are satisfied with school lunch.a. Type of sample:)
	b. Representative? Explain.	
	c. How would you make it more representative?	
8.	Elvira wants to determine if students are satisfied with school lunch. She leaves surveys on a table students to answer as the walk by. a. Type of sample:	e for
	b. Representative? Explain.	
	c. How would you make it more representative?	

25 sen	niors.	
a.	Type of sample:	
b.	Representative? Explain.	
c.	How would you make it m	ore representative?
Also identify	the population, sample and	
use the	<u>-</u>	ation is effective, researchers randomly assign two groups of people to and a placebo in group 2. Both groups are asked to rate their pain and
	Type of study:	Population:
	Sample:	Parameter of Interest:
safety many	. To determine this, they wa accidents there are. Then the	ing the speed limit from 75 mph to 80 mph will have an impact on tch a stretch of the highway when the speed limit is 75 and see how ey observe the number of accidents over a period of time on the same it of 80 mph. They then compare the difference.
	Type of study:	Population:
	Sample:	Parameter of Interest:
restau		n the menu is preferred more than the original, the manager of the of customers that have tried both sandwiches and asks them which
	Type of study:	Population:
	Sample:	Parameter of Interest:
13. A new asks th		its customer satisfaction is. It randomly selects 500 customers and
	Type of study:	Population:
	Sample:	Parameter of Interest:

9. Elvira wants to determine if students are satisfied with school lunch. She wants to include input from

each grade level at the high school. She randomly surveys 25 freshman, 25 sophomores, 25 juniors, and

Mr. Pham wants to know if doing homework actually helps students do better on their unit exams.		
14. Describe how Mr. Pham could	l carry out a survey to determine if homework actually helps.	
15. Describe how Mr. Pham could scores.	I carry out an observational study to determine if homework helps test	
16. Describe how Mr. Pham could	d carry out an experiment to determine if homework helps test scores.	
17. Which method would you reco	ommend Mr. Pham use? Explain.	