STAT 1350, 1/29 Discussion Questions

What is the board's main purpose?

ethics reviewed by IRB

1. What are the basic ethical requirements for any study of human subjects?

3. List three ethical standards for randomized, controlled clinical trials.

informed consent confidentiality of personal information

averages for large groups of people. What is this policy called?

Confidentiality

be confidential, anonymous, both or neither?

bolls

institutional review board, informed consent, confidentiality

2. Studies with human subjects must be approved in advance by an institutional review board.

4. The General Social Survey (GSS), conducted by the National Opinion Research Center at the University of Chicago, is a major source of data on social attitudes in the United States. Once each year, 1500 adults are interviewed in their homes all across the country. The subjects are asked their opinions about sex and marriage, attitudes toward women, welfare, foreign policy, and many other issues. The GSS never releases any individual responses, only percents and

5. Suppose you want to survey students to find out what proportion have illegally used

prescription drugs. In order to maximize the number of truthful responses, your survey should

proket the rights & welfare of human subjects

NOTT	
6. A professor asks each of his students to stand up	
have. The students do not state their names. This	s survey is considered to be confidential,
anonymous, both or neither?	
neither	
7. Attached is an article about a study conducted by	Facebook on its users. Give at least one reason why
	cs, and one way Facebook could have conducted the
study without these ethical questions. (The article of	
http://www.sciencedaily.com/releases/2014/09/14	
lack & informed consent	
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Easkook has millions & 4	seis, They conto
Parameter 100	and of the Shedy. They would
Opt-in option informing	frage of men is only
(a mot-out) quie l'ave conte	lake sample SI the coll of
(or opinion) Shu have you	expensage participated.
a shall p	seis, They could have added an people of the Shedy. They would we a large sample size even if only eventage participated.

STAT 1350, 2/3 Discussion Questions

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1. In one of the first attempts to discover the speed of light, Simon Newcomb in 1882 made 66 measurements of the time light takes to travel between the Washington Monument and his laboratory on the Potomac River. Why did Newcomb repeat his measurement 66 times and the take the average of the 66 as his final result?
reduce variabelity
2. You might try to measure how rich a person is by looking at the car they drive. In fact, driving a fancy car has little to do with income (most luxury cars are leased). In statistical terms, measuring income by car model is considered what?
3. When I set my TV video recorder to record at 9:00 PM, it starts recording 10 minutes late every time. This is an example of what statistical term?
4. A measurement process that does not systematically overstate or understate the true value of the quantity being measured is called what? Whatseld
5. A local police department gives everyone who applies for a job a test of their knowledge of modern popular music. Experience shows that those who score well on this test tend to become very poor police officers. As a measure of future job performance, the music test scores, are they valid or invalid? Reliable or unreliable?
miralid, reliable (note: Seich a hireing practice: such a hireing pract
6. When repeated measurements each have a systematic error in the same direction, we say that the measurements contain what?
Dias
7. All statistical studies should follow the principle of confidentiality. What does this mean?
personal information Should not be kept of the data or veleased. 8. Studies with human subjects must be approved in advance by an institutional review board.
8. Studies with human subjects must be approved in advance by an institutional review board. What is the board's main purpose?
What is the board's main purpose? Insure eshical practices are followed in Conducting experiments
in Conducting experiments

income of all Calif Census Bureau ne	report on the income of Americans says with 90% confidence the median ornia households in 2007 was \$67,484 with a margin of error of \pm \$375. The ver shares information about individuals with the IRS. To do so would violate nt of data ethics. What is that principal called?
	Confidentiality
survey?	is the confidence interval for median income in California according to this
	(67,109,67,859)
mean?	dy that uses human subjects requires informed consent. What does that
Subjects	must be made aware of any risks I withe experiment and they must write to participatine I to survey students to find out what proportion have illegally used
prescription drug	t to survey students to find out what proportion have illegally used s. In order to maximize the number of truthful responses, your survey should onfidential, both or neither?
	both
12. What is the main them	e of Chapter 9? Why is it important?
do a log	et check! ent because you can often cakeh
its importo	ent because you can often caken
Carputatio	nal errors, fraud or deception,
or other typ	nal errors, fraud or decephon, es & problems