Stat	1350.	Quiz #3,	Spring	2015
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Instructions: Answer each question completely. Show all work for any computational questions.

1. How is a matched pairs experiment different from a block design?

pairs are makked so they differ indurdually by as little as possible except in one feature

a block design relies on vandomization to obbin groups of natural variation, but can be defferent

2. Give two reasons why the placebo effect plays such an important role in medical research.

it is often used as a control to weed out effects of doing nothing, or bedside manner or other Subjective aspects of medicine. It kelps determine Whether a medicine is effective or the result of Hinking it will be.

3. What is the purpose of an Institutional Review Board?

to protect subjects is research studies from havin

4. The best way to determine causation is through an experiment. Why is it impossible, however, to determine experimentally if smoking causes cancer? Why are we left to observational studies only?

because it is uneshical to ask people to start Smokeng if we have reason to behave it could be deadly.