

Name: _____

Statistics

Homework 1-4,1-5 Review

1. Information from research studies is sometimes taken out of context. Explain why the claims of these studies might be suspect.
 - a. Based on a recent telephone survey, 72% of those contacted shop online.
 - b. In Greenville County there are 8324 deer.
 - c. Nursing school graduates from Fairview University earn on average \$33,456.
 - d. Only 5% of the men surveyed was the dishes after dinner.
 - e. A recent study shows that high school dropouts spend less time on the Internet than those who graduated; therefore, the Internet raises your IQ.
 - f. Most shark attacks occur in ocean water that is 3 feet deep; therefore, it is safer to swim in deep water.

2. Identify each study as being either observational or experimental.
 - a. Subjects were randomly assigned to two groups, and one group was given an herb and the other group a placebo. After 6 months, the numbers of respiratory tract infections each group had were compared.
 - b. A researcher stood at a busy intersection to see if the color of the automobile that a person drives is related to running red lights.
 - c. A researcher finds that people who are more hostile have higher total cholesterol levels than those who are less hostile.
 - d. Subjects are randomly assigned to four groups. Each group is placed on one of four special diets – a low-fat diet, a high-fish diet, a combination of low-fat diet and high-fish diet, and a regular diet. After 6 month, the blood pressures of the groups are compared to see if diet has any effect on blood pressure.

3. Identify the independent variable(s) and the dependent variable for each of the studies.
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