

Select your procedures from the following list: **1-proportion, 2-proportion, 1-sample t , 2-sample t , paired t , Chi-squared goodness of fit, Chi-squared for 2-way tables, linear regression, 1-way ANOVA, none of the above.** (Some procedures may be repeated or omitted. Where multiple answers are possible, it suffices to give one correct solution, but it should not ignore an obvious design improvement that would have been possible.)

- a) You want to know if more Grand Rapids residents prefer iced tea or cola as a summer beverage.

Cases:

Procedure:

Variable(s):

- b) A common experiment in college biology labs involves giving students a small electric shock and measuring their reaction time. You want to know whether reaction time is different depending on whether the electric stimulus is given to the tip of the index finger or to the center of the palm of the hand.

Cases:

Procedure:

Variable(s):

- c) You want to know which of three fertilizers has the best germination rate when applied to Wisconsin Fast Plants seeds. (These are plants that are often used in scientific experiments because they grow very quickly.)

Cases:

Procedure:

Variable(s):

- d) You want to see whether three different smoking cessation programs lead to different amounts of weight gain among women who successfully quit smoking using these programs.

Cases:

Procedure:

Variable(s):

- e) You want to know whether the amount of time young people spend listening to music with ear buds is related to standard hearing test scores.

Cases:

Procedure:

Variable(s):