(A) Define variables in a tabular format, as follows.

name

symbol

scale

scales: nominal (=categorical), ordinal, or cardinal cardinal = interval or ratio scale.

- (B) Using the symbols, write a general linear model relating the response variable to explanatory variable(s) and interaction terms (if appropriate).
- (C) Complete the first two columns of the ANOVA table <u>source</u> <u>df</u>
- (D) State the name of the analysis, from the following list.
 t-test, one-way ANOVA, two-way ANOVA, three-way ANOVA
 paired comparisons, randomized blocks,
 hierarchical (nested) ANOVA
 regression, multiple regression,
 ANCOVA (at least 1 nominal and at least 1 cardinal scale explanatory variable)
 none of the above.
- 1. Simpson *et al* (1960, *Quantitative Zoology*) reported earlier data (Howard 1927) on the value of the ratio of distal width to length in the ulna of:
 - -a fossil turkey *Parapavo californicus* (sample size = 133)
 - -an allied living species *Meleagris gallopavo* (sample size = 29)

Only the ratio was reported, not the ulna widths or lengths.

A=6 B=2 C=6 D=1

A. name symbol scale

C. source df

B. _____ = ____

D.