Question 1.30

- a. [6 pts] The IVPPSS is ...
 - Individual a Rusty Crayfish in the lake with Smallmouth Bass in 2012
 - Variable carapace length of Rusty Crayfish
 - Population all Rusty Crayfish in the lake with Smallmouth Bass in 2012
 - Parameter mean carapace length of all Rusty Crayfish in the lake with Smallmouth Bass
 - Sample 235 Rusty Crayfish in the lake with Smallmouth Bass in 2012 that were actually examined
 - Statistic mean carapace length of 235 Rusty Crayfish in the lake with Smallmouth Bass in 2012
- b. [1 pt] Carapace length is a continuous quantitative variable.

Question 1.31

- a. **[6 pts]** IVPPSS is ...
 - Individual a ballast tank on an ocean-going vessel in 2001.
 - Variable whether or not the tank contain any living organisms.
 - Population all ballast tanks on ocean-going vessels in 2001.
 - Parameter proportion of all ballast tanks that contained living organisms.
 - Sample 43 ballast tanks in 2001.
 - Statistic proportion of 43 ballast tanks that contained living organisms.
- b. [1 pt] Whether or not the tank contains any living organisms is a nominal categorical variable.

Question 1.32

[1 pt] The concentration of lead is a continuous quantitative variable.

Question 1.33

[1 pt] The risk rating is an ordinal categorical variable.

Question 1.34

[1 pt] The information type is a nominal categorical variable.

Question 1.35

[1 pt] The Koppen scheme is a nominal categorical variable (unless you "see" an order (e.g., decreasing temperature?) among the categories, in which case it would be an ordinal categorical variable).

Notes from the Professor

• Make sure you follow the directions for formatting your homework found in Section 1.4 of the book – including (1) making sure to include and sign the "Honor Statement" from the syllabus, using complete

sentences, not double-spacing results in tables, and making sure that tables and figures are labeled and referred to as described in Section 1.4 of the book. Failure to do so will result in missed points on the next homework.

- In question 1.31, the individual is not a vessel because multiple ballast tanks were sampled from some vessels.
- Recall that we will call a categorical variable with only two levels a nominal variable. More specifically, this is a binomial variable.