

Summarization I - Nunavut Exercise

1. Load the `PG008_original.xlsx` file into a `data.frame` object and answer the following questions.
 - a. How many fish were collected from each year?
 - b. What percent of all fish collected were from each year? [*Show results as a table rounded to one decimal place and as a figure.*]
 - c. Construct a table that shows the percentage (to one decimal) of females (and males) collected by year.
 - d. Construct a table that shows the number in each maturity stage collected by year and sex.
 2. Isolate the Arctic Char captured in 2013. Use these data to answer the questions below.
 - a. Construct a length frequency graphic. [*Experiment with different bin widths*]
 - b. Summarize (numerically) the length measurements.
 - c. Construct a table from which you can easily find the percentage of fish longer than 450 mm.
 - d. Construct a table from which you can easily find the percentage of fish shorter than 700 mm.
 - e. Summarize the weight measurements.
 - f. Examine the weight-length relationship.
 - g. Examine (graphically and numerically) the log-log transformed weight-length relationship.
 3. [*Time Permitting*] Isolate Arctic Char captured from a single year where age was estimated for a large number of fish. [*Hint: Make a frequency table of **age** by **year**.*] Use these data to answer the questions below.
 - a. Summarize the age distribution.
 - b. Construct a table from which you can easily find the percentage of fish older than age-8.
 - c. Construct a table from which you can easily find the percentage of fish younger than age-15.
 - d. Examine the length-age relationship.
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