Data organization review

Know the different types of data:

    categorical:

        not ordinal

        oridanl

    quantitative:

        discrete

        continuous

    Be able to give an example of each type.

What is a record (= observational unit = case)?

What do we use n for?

Know methods of organizing your data, and be able to do these methods if asked:

    Stem & leaf plot (remember - not in the 4th edition, so see the notes).

        Be aware that you can group your data differently.

    Histogram

        Note the difference the number of bars makes to your graph

    Barplot

        How is this different from a histogram? How is it similar?

Be able to define:

    Mode

    Tail

        Remember that some "tails" can be very fat.

Be able to recognize some basic distributions:

    symmetric

        bell shaped

bell shaped with long tails   (you may not be able to recognize this unless you see a regular bell shaped curve next to it (that's okay - we haven't learned how to do this yet)).

skewed (right or left)

exponential

bimodal

uniform

u-shaped

Note that a distribution doesn't have to be bell shaped to be symmetric.

Notation:

What is Y

How is it different from y?

What is y_i?

For that matter, what is i?

Make sure you know how to use the sum symbol (Σ) and don't forget the numbers/symbols immediately above and below Σ (the "$i = 1$" and the "n"): $\sum\limits_{i=1}^{n} ¿$