

## Descriptive Statistics Review

Know the definitions of the following. You should also know how to calculate these *without a calculator*:

Minimum

Maximum

Mode

Mean ( $= \bar{y}$ )

Median

Range

Average absolute deviation

Sum of Squares ( $= SS$ )

Variance ( $= s^2$ )

Standard deviation ( $= s$ )

Note that all of the above are *sample* statistics since they are calculated from our sample.

Comment: since you can't easily do square roots without a calculator, any calculations you need to do by hand will use numbers that are easy to work with (e.g.,  $\sqrt{64}$ ,  $\sqrt{49}$ , etc.).

(In general, you shouldn't see fractions or decimal numbers).

Why do we use  $n - 1$  in the denominator for the variance (and standard deviation)? Why not just  $n$ ?

You should know what significant digits are and how to round.

Why do you *never* round anything until you get to your final answer?

*But please remember that I am not very picky about significant digits, providing you don't round too much. **If in doubt, give a few extra digits rather than not enough.***