Stats Starter 1/30

- p. 356 #27, 28
- p. 404 #76, 78

Mean and St. Deviation of a binomial R.V.

$$M_x = h \cdot P$$
 * only for binomial situations

ex: Find the mean (expected value) and standard deviation of the # of kids (out of 5) with type O blood.

$$n = 5$$

$$P = 0.25$$

$$= 1.25$$

$$O_{X} = \sqrt{5(.25)(1-25)}$$

$$= 968$$

Condition #2 for Binomial Situations

•In the real world, most sampling is done without replacement. -> Not Independent.

So: let's alter the independent rule:

If it's not independent (no replacement) then it's okay if we have < 10% of population