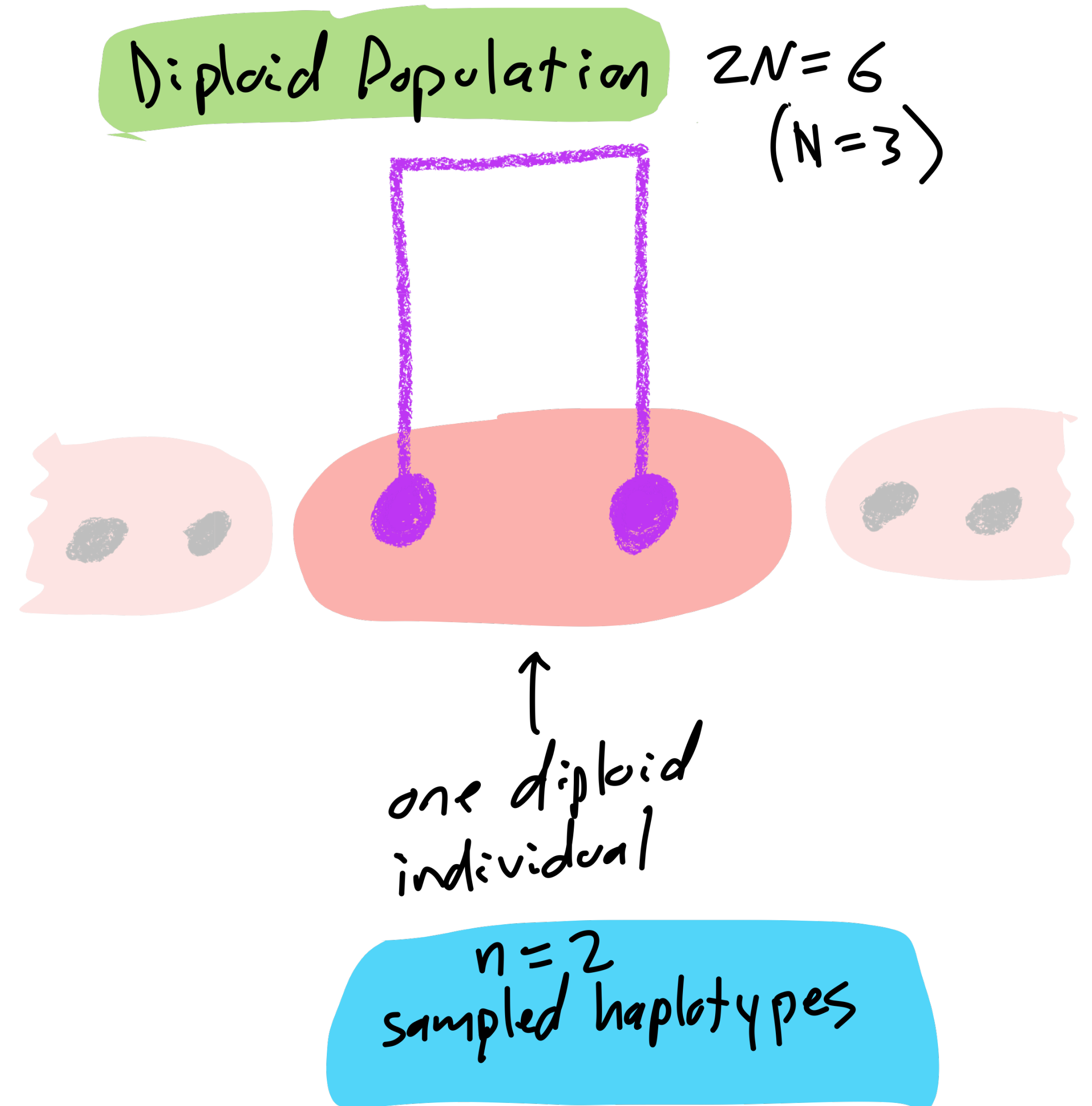
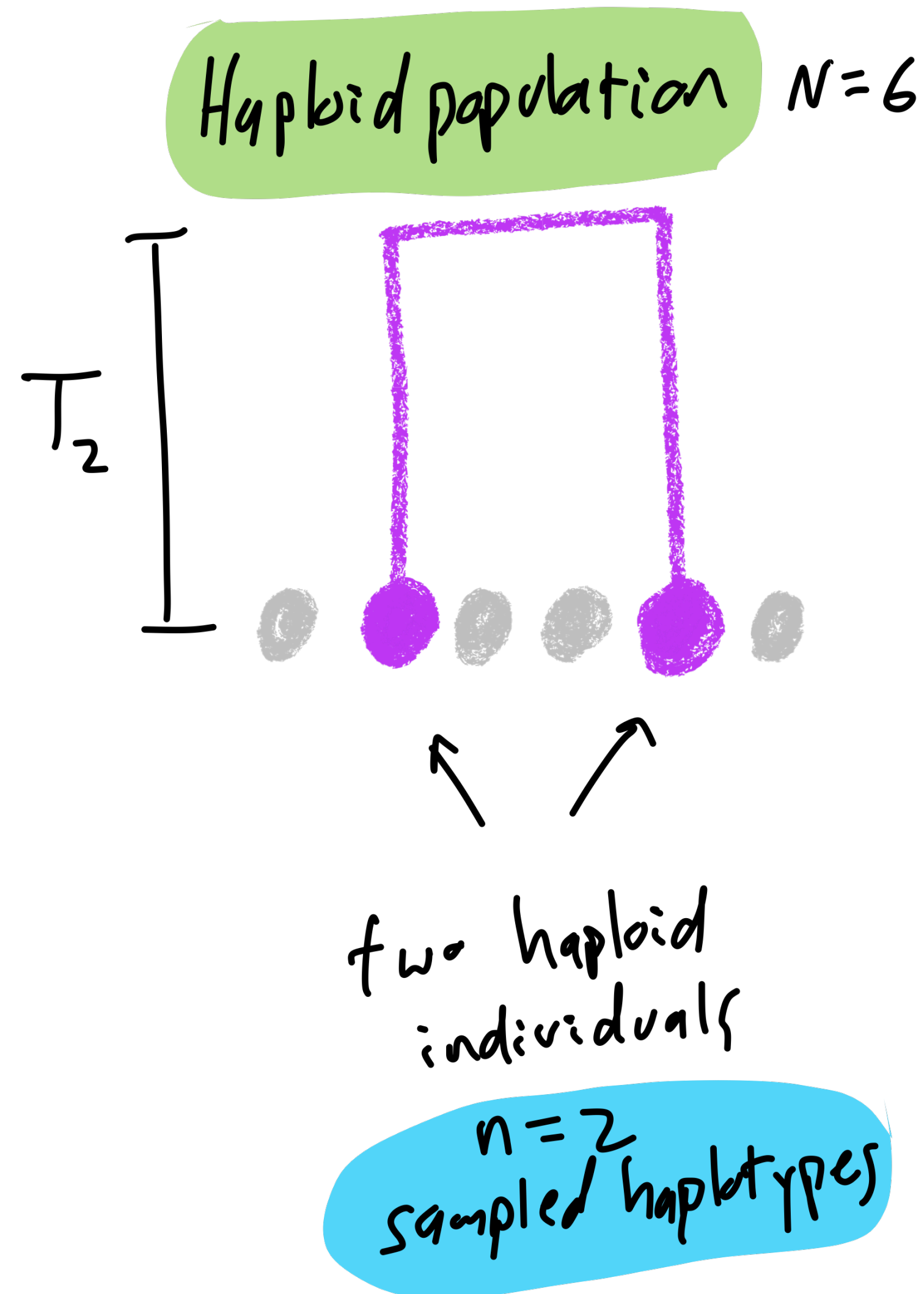


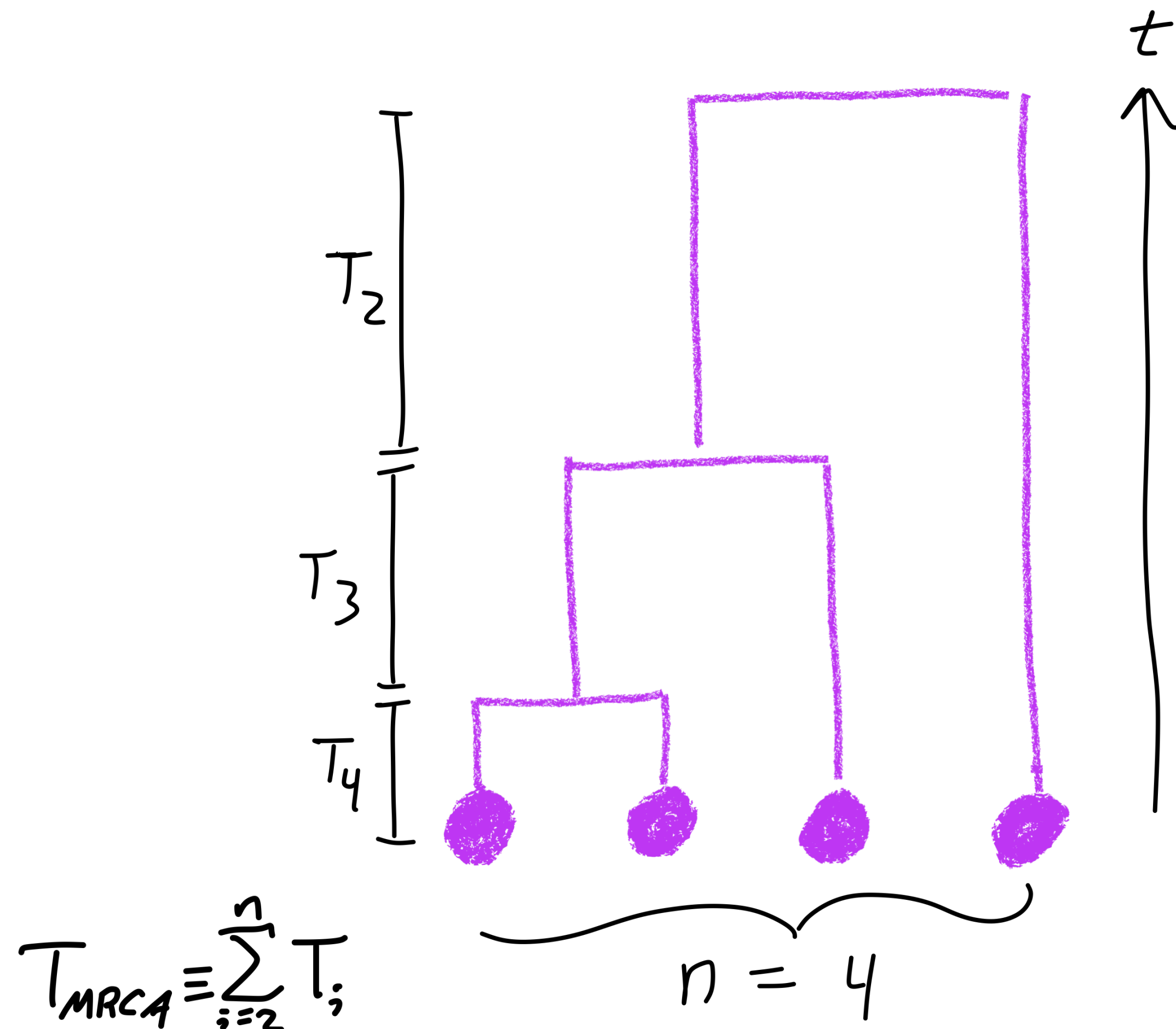
Coalescent theory

Watch those factors of 2!



Coalescent theory

Updating the previous results



"intercoalescence"
times

$$E[T_i] = \frac{2N}{\binom{i}{2}}$$

Exp. dist.

$$p(t_i) = \frac{\binom{i}{2}}{2N} e^{-\frac{\binom{i}{2}}{2N} t_i}$$

- Each pair is a process w/ rate $\frac{2}{2N}$
- The pairs race to coalesce