



3.) In the breeding season, Anole lizards court each other by bobbing their heads up and down while displaying a colorful throat patch. Now, suppose that anoles prefer to mate with lizards who bob their heads fast (F) and have red throat patches (R) and that these two alleles are dominant to their counterparts, slow bobbing and yellow throats. A male lizard heterozygous for head bobbing and homozygous dominant for the red throat patch mates with a female that is also heterozygous for head bobbing but is homozygous recessive for yellow throat patches.

- i) What percent of the offspring have the preferred fast bobbing / red throat phenotype?
- ii) What percentage of the offspring will lack mates because they have both slow head bobbing and yellow throats?
- iii) What percentage of the offspring will have trouble finding mates because they lack one of the dominant traits?