

AP Biology Chapter 17 & 18 Reading Guide

1. Population genetics puts a mathematical approach to the study of microevolution. Define each of the terms commonly used in population genetics.

- a. population:
- b. gene pool:
- c. gene frequency:

2. List five conditions that must be met by a population to insure stability (no evolution).

- a.
- b.
- c.
- d.
- e.

3. Assuming Hardy-Weinberg distribution of genes in a population, write the equation that describes genotype frequencies.

4. Define the following:

- a. p^2 =
- b. $2pq$ =
- c. q^2 =

5. Work out these practice problems. Assuming H-W equilibrium, find both the allele and genotype frequencies.
 a. In *Drosophila*, the allele for normal length wings is dominant over the allele for vestigial wings. In a population of 1,000 individuals, 160 show the recessive phenotype.

- 1. allele frequencies: dominant allele (W) = _____; recessive allele (w) = _____
- 2. genotype frequencies: WW = _____; Ww = _____; ww = _____

b. The allele for the hair pattern called "widow's peak" is dominant over the allele for no "widow's peak." In a population of 1,000 individuals, 360 show the dominant phenotype.

- 1. allele frequencies: dominant allele (____) = _____; recessive allele (____) = _____
- 2. genotype frequencies: _____ = _____; _____ = _____; _____ = _____

6. How does genetic drift apply to each of the following? Give an example of each.

- a. Founders effect:
- b. Bottleneck effect

Ap Biology Chapter 17 Reading Answers

Marcel A. Müller



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Embracing the Song of Phrase: An Psychological Symphony within **Ap Biology Chapter 17 Reading Answers**

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