

Module 2 Worksheet: Hardy-Weinberg

1. Define the following:

- Genotype: the set of alleles that an organism has
- Phenotype: the observable characteristics of an organism
- Allele: a variant form of a gene
- Genotype frequency: the proportion of a population that has a particular genotype
- Phenotype frequency: the proportion of a population that has a particular phenotype
- Genotype: the set of alleles that an organism has

2. Suppose a population is in Hardy-Weinberg equilibrium. If the frequency of the dominant allele is 0.7, what is the frequency of the recessive allele? Show your work.

- 0.3

	AA	Aa
AA	0.49	0.42
Aa	0.42	0.09

- 0.3
- 0.49
- 0.09

3. Using the information from question 2, determine the frequency of each of the following genotypes:

- AA: 0.49
- Aa: 0.42
- aa: 0.09

4. Suppose a population is in Hardy-Weinberg equilibrium. If the frequency of the dominant allele is 0.7, what is the frequency of the recessive allele? Show your work.

- 0.3
- 0.49
- 0.09

	AA	Aa
AA	0.49	0.42
Aa	0.42	0.09

5. Suppose a population is in Hardy-Weinberg equilibrium. If the frequency of the dominant allele is 0.7, what is the frequency of the recessive allele? Show your work.

Unit 7 Genetics Study Guide Answers

David Freifelder, Leon A. Snyder



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