

## Section 4: Hardy-Weinberg Equilibrium

## Study Guide B

**KEY CONCEPT**

Hardy-Weinberg equilibrium provides a framework for understanding how populations evolve.

**VOCABULARY**

Hardy-Weinberg equilibrium
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**MAIN IDEA:** Hardy-Weinberg equilibrium describes populations that are not evolving.

1. What variable remains constant, or in equilibrium, in the Hardy-Weinberg model?

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2. Name the five conditions required for a population to be in Hardy-Weinberg equilibrium.

\_\_\_\_\_

3. Name two ways that population biologists can use Hardy-Weinberg equilibrium.

\_\_\_\_\_

**MAIN IDEA:** The Hardy-Weinberg equation is used to predict genotype frequencies for a population.

4. Write the Hardy-Weinberg equation:

\_\_\_\_\_

5. Fill in the missing information about the variables involved in the Hardy-Weinberg equation.

Variable	What It Represents
	frequency of dominant homozygous genotype
$2pq$	
	frequency of recessive homozygous genotype
$p$	
	frequency of recessive allele

# Hardy Weinberg Equilibrium Study Guide

**Jiyuan Zhang**



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