Hardy-Weinberg Genetic Equilibrium Basics

Drag the symbol to the correct question.

p

 p^2

 q^2

2pq

p+q=1

 $p^2 + 2pq + q^2 = 1$

What symbol is used to represent the recessive allele in a population?

What symbol is used to represent the dominant allele in a population?

What symbol is used to represent the homozygous dominant genotype in a population?

What symbol is used to represent the heterozygous genotype in a population?

What symbol is used to represent the homozygous recessive genotype in a population?

Which equation is used to represent the number of alleles in a population?

Which equation is used to determine the frequency of the genotypes/phenotypes?

Scenario:

Within a population of butterflies, the color brown (B) is dominant over the color white (b).

Which allele color would be represented by p?

Which allele color would be represented by q?

What genotype would be represented by p^2 ?

What phenotype would be represented by p²?

What genotype would be represented by q^2 ?

What phenotype would be represented by q^2 ?

What genotype would be represented by 2pq?

What phenotype would be represented by 2pq?

