

The Hardy-Weinberg Equilibrium

How can we make predictions about the characteristics of a population?

Why?

Punnett squares provide an easy way to predict the possible genotypes for an offspring, but it is not practical to perform a Punnett square analysis on all possible combinations of all members of a population to predict what the population might look like in the future. For that we must turn to statistics. The Hardy-Weinberg equation is a tool biologists use to make predictions about a population and to show whether or not evolution is occurring in that population.

Model 1 – Controlled (Selective) Mating

Males		Females		Males		Females	
							
Bb	Bb	Bb	Bb	bb	Bb	bb	Bb
							
Bb	Bb	Bb	Bb	bb	Bb	bb	Bb
							
Bb	Bb	Bb	Bb	bb	Bb	bb	Bb

1. How many mating pairs are illustrated in Model 1?

There are twelve mating pairs.

2. Describe the parents in each mating pair in Model 1. Use terms such as homozygous, heterozygous, dominant, and recessive.

One parent is heterozygous and the other is homozygous recessive.

3. Use two Punnett squares to determine the possible genotypes for offspring from the pairs.

	B	b
b	Bb	bb
b	Bb	bb

	b	b
B	Bb	Bb
b	bb	bb

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