

THE HARDY-WEINBERG PRINCIPLE

The frequencies of different alleles and genotypes within a population will remain constant through time, as long as there are no evolutionary influences present.

This means:

- the population is very large
- there are no new mutations
- there is no migration
- there is no natural selection
- there is no sexual selection (mating is random)

THE HARDY-WEINBERG EQUATIONS

p = frequency of allele A in population

q = frequency of allele a in population

If there are only 2 alleles for a gene then:

$$p + q = 1$$

Allele frequencies can be used to determine genotype frequencies too!

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

EXAMPLE: If there are 200 M alleles in the gene pool and 800 m alleles, then

$$\underset{\text{M}}{0.2} + \underset{\text{m}}{0.8} = 1$$

and

$$\underset{\text{MM}}{(0.2)^2} + \underset{\text{Mm}}{2(0.2 \times 0.8)} + \underset{\text{mm}}{(0.8)^2} = 1$$

0.04

0.32

0.64

The Hardy-Weinberg equilibrium is never achieved in nature, but it's very useful in studying populations.

Hardy Weinberg Equation Cheat Sheet

The Princeton Review



Hardy Weinberg Equation Cheat Sheet:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Hardy Weinberg Equation Cheat Sheet**

In some sort of inundated with screens and the cacophony of immediate transmission, the profound energy and mental resonance of verbal beauty often fade into obscurity, eclipsed by the constant barrage of noise and distractions. However, situated within the lyrical pages of **Hardy Weinberg Equation Cheat Sheet**, a charming function of fictional elegance that impulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Written with a virtuoso wordsmith, that enchanting opus guides viewers on a psychological odyssey, lightly revealing the latent potential and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main styles, dissect their fascinating publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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