

AP BIOLOGY EQUATIONS AND FORMULAS

STATISTICAL ANALYSIS AND PROBABILITY									s = sample standard deviation (i.e., the sample based estimate of the standard deviation of the population) $\bar{x}$ = mean n = size of the sample o = observed individuals with observed genotype e = expected individuals with observed genotype Degrees of freedom equals the number of distinct possible outcomes minus one.
Standard Error			Mean						
$SE_{\bar{x}} = \frac{s}{\sqrt{n}}$			$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$						
Standard Deviation			Chi-Square						
$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n - 1}}$			$\chi^2 = \sum \frac{(o - e)^2}{e}$						
CHI-SQUARE TABLE									
Degrees of Freedom									
p	1	2	3	4	5	6	7	8	
0.05	3.84	5.99	7.82	9.49	11.07	12.59	14.07	15.51	
0.01	6.64	9.32	11.34	13.28	15.09	16.81	18.48	20.09	
LAWS OF PROBABILITY									
If A and B are mutually exclusive, then $P(A \text{ or } B) = P(A) + P(B)$									
If A and B are independent, then $P(A \text{ and } B) = P(A) \times P(B)$									
HARDY-WEINBERG EQUATIONS									
$p^2 + 2pq + q^2 = 1$			p = frequency of the dominant allele in a population						
$p + q = 1$			q = frequency of the recessive allele in a population						
METRIC PREFIXES									
Factor		Prefix		Symbol					
10^9		giga		G					
10^6		mega		M					
10^3		kilo		k					
10^{-1}		centi		c					
10^{-3}		milli		m					
10^{-6}		micro		μ					
10^{-9}		nano		n					
10^{-12}		pico		p					
Mode = value that occurs most frequently in a data set									
Median = middle value that separates the greater and lesser halves of a data set									
Mean = sum of all data points divided by number of data points									
Range = value obtained by subtracting the smallest observation (sample minimum) from the greatest (sample maximum)									

s = sample standard deviation (i.e., the sample based estimate of the standard deviation of the population)

$\bar{x}$ = mean

n = size of the sample

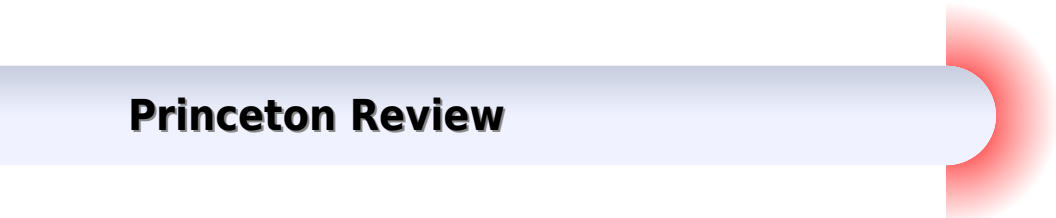
o = observed individuals with observed genotype

e = expected individuals with observed genotype

Degrees of freedom equals the number of distinct possible outcomes minus one.

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Princeton Review



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