

Chi Squared Practice Problems from study guide: answers

1. **Chi Squared Problems:** you will be given the table of critical values and formulas, like on your test.

Ex:

- a. In a heterozygous, heterozygous dihybrid cross, the following data was obtained:
 dominant for both traits: 570, dominant for trait 1 and recessive for trait 2: 185
 dominant for trait 2 and recessive for trait 1: 190, recessive for both traits: 55

Perform a chi-square analysis to see if the data above agrees with the predicted outcome of this cross.

Chi Square Table

p value	Degrees of Freedom							
	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	9.21	11.34	13.28	15.09	16.81	18.48	20.09

Chi Square

$$\chi^2 = \sum \frac{(o - e)^2}{e}$$

(tables and formula given

on test)

Solution:

NOTE: To get the Expected Number: Total up the offspring (570 + 185 + 190 + 55 = 1000), and then multiply each group by its expected outcome. In a dihybrid heterozygous, heterozygous cross, you would expect 9:3:3:1 ratio (9/16 dominant, dominant, etc.)

Group	Observed	Expected	O-E	(O-E) ²	(O-E) ² /E
Dominant for both	570	563 (9/16 X 1000)	7	49	.007
Dom for trait 1; rec for trait 2	185	188 (3/16 X 1000)	-3	9	0.48
Dom for trait 2; Rec for trait 1	190	188 (3/16 X 1000)	2	4	.021
Recessive for both	55	63 (1/16 X 1000)	-8	64	1.016
Square Value				Chi	1.092

Degrees of Freedom = Number of Groups - 1 = 4 groups - 1 = 3

Look up critical value in a critical values chart: always use probability = 0.05

Probability (p)	Degrees of Freedom				
	1	2	3	4	5
0.05	3.84	5.99	7.82	9.49	11.1
0.01	6.64	9.21	11.3	13.2	15.2
0.001	10.8	13.8	16.3	18.5	20.5

Since there are 3 degrees of freedom and we want 0.05 probability, the critical value for our Chi-square analysis is 7.82.

Once you determine the critical value, compare it to your computed Chi-square value (which is 1.092). If the Chi Square value is equal to or less than the critical value the null hypothesis is accepted (in other words, chance did not produce the results, the results actually followed the expected 9:3:3:1 ratio). If the Chi Square value is more than the critical value, the null hypothesis is rejected and alternative explanations have to be developed to explain the data—the hypothesis does not explain it.

Genetics Chi Square Practice Problems With Answers

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Statistical Methods Applied to Experiments in Agriculture and Biology George Waddel Snedecor, 1940 Experiments on attributes An experiment designed to compare measurements of individuals Sampling from a normally distributed population An experiment designed to compare two groups Short cuts and approximations Linear regression Correlation Large sample theory Enumeration data with multiple degrees of freedom Experiments involving more than two groups of measurement data analysis of variance Analysis of variance with two criteria of classification Two variates in two or more groups covariance Multiple regression and covariance Curvilinear regression Individual degrees of freedom Large samples of enumeration data Binomial and poisson distributions *Textbook of Genetics* William Hovanitz, 1953 The principle of mendelian segregation Probability and significance Segregation in action Mendel's principle of independent assortment Chromosomes in cell division and gamete formation Chromosome structure Linkage Linkage groups and chromosome maps Multiple alleles and gene combinations Mutations and chromosomal variations Polyploidy haploidy and aneuploidy Inheritance of intergrading characters quantitative inheritance Selection and populations Mutations and the gene Gene action and gene structure Genetics in medicine and agriculture Species differences similarities and organics evolution

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Giles Morgan,1999 *Biostatistical Genetics and Genetic Epidemiology* Robert C. Elston,Jane M. Olson,Lyle Palmer,2002-04-22 This is the third in a series of books based on articles from the Encyclopedia of Biostatistics The editors have updated the articles from the Human Genetics section of the EoB have adapted other articles to give them a genetic feel and have included a number of newly commissioned articles **Investing Biology** Pearson Education,2002-11

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