

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 | 0.21 |
| 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

**Robert C. Elston, Jane M. Olson, Lyle
Palmer**



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