

CHI-SQUARE GENETICS PRACTICE PROBLEMS

1. A poker-dealing machine is supposed to deal cards at random, as if from an infinite deck.

In a test, you counted 1600 cards, and observed the following:

Spades	404
Hearts	420
Diamonds	400
Clubs	376

Fill in the table and run the Chi-square test.

Card Face	Observed	Expected	O-E	(O-E) ²	(O-E) ² /E
Spades					
Hearts					
Diamonds					
Clubs					
Σ =					Chi Square Sum

Degrees of Freedom: _____

Accept or Reject Null Hypothesis: _____

2. A genetics engineer was attempting to cross a tiger and a cheetah. She predicted a phenotypic outcome of the traits she was observing to be in the following ratio 4 stripes only: 3, spots only: 9, both stripes and spots. When the cross was performed and she counted the individuals she found 50 with stripes only, 41 with spots only and 85 with both. Run the Chi-Square Test (Hint: Calculate the percents of observed and expected)

Ratios	Observed #	Expected #	O-E	(O-E) ²	(O-E) ² /E
Stripes Only					
Spots Only					
Stripes/Spots					
Square Sum Σ =					Chi

Degrees of Freedom: _____

Accept or Reject Null Hypothesis: _____

3. In the garden pea, yellow color (Y) is dominant to green (y), and round pod shape (R) is dominant to the constricted form (r). Considering both of these traits jointly in self-fertilized dihybrids (dihybrid cross), the progeny appeared in the following numbers (9:3:3:1 ratio):
 556 yellow, round
 193 green, round
 184 yellow, constricted

$$\chi^2 = \sum \frac{(O - E)^2}{E}$$

O = the frequencies observed

E = the frequencies expected

Σ = the 'sum of' the

Genetics Chi Square Practice Problems With Answers

N Colangelo



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