

Exam 4 (mostly practice problems)

What is Mendel's model organism and why.

What is the ratio for a monohybrid cross and a dihybrid cross?

Complete a dihybrid Punnett square and show the genotype and phenotypes for the cross between Heterozygous plants for yellow and round seeds. (GgWw)

Answer the following questions using this information:

A scientist completed an experiment and concluded that 269 of her plants were tall and yellow, 50 were tall and green, 52 were dwarf and yellow, and 31 were dwarf and green.

What is your Null hypothesis?

What is your alternative hypothesis?

What is the formula for Chi square?

Calculate the expected values for each plant.

Calculate the chi value for this problem.

Using the probability table, find the P value.

Using this value, what can you conclude about this problem?

What are the three types of mutations?

If I cross two pink snapdragons, what will be resulting offspring look like? What is this ratio and what is this called?

Describe codominance.

If two people with the blood types of $I^A I^B$ and ii have kids, what could their blood types be?

Complete a Punnett square with two agouti mice with the following genes: $A A_y \times A A_y$

