

Assignment #1: Mendelian Genetics

This assignment is affiliated with the "Assignment #1: Mendelian Genetics" quiz on the folio course page. Complete the following problems before attempting the quiz as you will only have one attempt at the quiz and there will be a 25 minute time limit. The answers to these questions, questions concerning methodology, along with 1-2 new problems (with similar mechanisms to solving those problems) are all potential quiz questions. You must complete the quiz prior to midnight Sunday, Aug. 26.

- 1a) The summer squash has a white fruit color which is dominant over yellow fruit color. If a white fruit homozygous plant is crossed with a homozygous yellow fruit plant, what will the genotype of the first generation (F_1)?

C = White coloring; c = Yellow coloring
CC crossed with cc

	C	C
c	Cc	Cc
c	Cc	Cc

The genotypes of the F_1 generation will all be heterozygous (Cc).

- 1b) If the individuals from the F_1 generation were allowed to fertilize one another, what is the expected genotypic and phenotypic ratios?

All F_1 generation must be Cc

	C	c
C	CC	Cc
c	Cc	cc

The expected genotypic ratio would be 1:2:1 while the phenotypic ratio would be 3:1

- 2a) In the high pressure, deep, dark depths of the ocean's abyssal plains lives an organism called a viper fish. These fish resemble transparent eels with overlarge heads and very long, pointy teeth. Some of these fish can produce biochemical luminescence along the length of their bodies and some cannot. Also, some have very large eyes while others have almost no eyes at all. Assume that these two traits are each controlled by single separate genes with the production of bioluminescence (L) and large eyes (E) being dominant alleles for those traits. A female fish heterozygous for both traits happens to meet a male that is homozygous dominant for bioluminescence and homozygous recessive for eyes. List all the possible genotypes of their offspring.

Possible genotypes: LLEe, LLee, LLEe, LLee

- 2b) What are the odds that any progeny will be bioluminescent with no eyes?

Mother = LLEe

Father = LLee

	LE	Le	LE	Le
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee
Le	LLLe	LLee	LLLe	LLee

Bioluminescent along length of their bodies and no eyes (LLLe or LLee) = 50%

Lab 1 Mendelian Inheritance Problem Solving Answers

R Sandford



Lab 1mendelian Inheritance Problem Solving Answers:

Adopting the Track of Term: An Psychological Symphony within **Lab 1mendelian Inheritance Problem Solving Answers**

In a global used by displays and the ceaseless chatter of fast connection, the melodic splendor and psychological symphony produced by the written word frequently fade into the background, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Lab 1mendelian Inheritance Problem Solving Answers** a marvelous literary treasure overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this fascinating masterpiece conducts viewers on a mental journey, skillfully unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths with this moving examination, we can investigate the book is main harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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