

### 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%

# Genetics Problem Solving Chapter 25 Answers

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