

Bio 111 Pre-Lab for Lab #01: Name_____

Virtual Genetics Lab (VGL) I. TA & Sect._____

As a warm-up for this lab, you should do Genetics Problem V1 which can be found starting on page 9 of *A Problems Approach to Introductory Biology (APAIB)*. Your answers to this pre-lab will be based on this question.

1) In step (7a), you are asked to select two individual creatures, find their genotypes, and cross them. Do this and use the results to fill in the blanks below (do not use the example results presented in the book):

a) Genotype of male parent_____

b) Genotype of female parent_____

c) Give the expected results of cross.

<u>Genotypes</u>	<u>EE</u>	:	<u>Ee</u>	:	<u>ee</u>
(expected ratio)	_____	:	_____	:	_____
(for example 1:2:1)					

<u>Phenotypes</u>	<u>Extra</u>	:	<u>Crooked</u>
(expected ratio)	_____	:	_____
(for example 3:1)			

d) Results of cross:

Number of offspring with Extra Antennae_____

Number of offspring with Crooked Antennae_____

e) Do the actual results match your prediction? Explain why or why not.

