

<b>CHAPTER 19</b>	<b>Investigation 19.A: Applying the Hardy-Weinberg Equation</b>	<b>BLM 19.1.6</b>
<b>HANDOUT</b>		
<b>Purpose:</b> What are the frequencies of the various genotypes in your class?		

### Procedure

1. Work with a partner. Your teacher will tell you which three single-gene traits to investigate.
2. Survey the class to find out the number of students with each phenotype for the traits you are investigating. For example, survey the class to find out how many students have attached earlobes and how many do not. Alternatively, your teacher will provide you with data to use.

### Analysis

1. Using the Hardy-Weinberg equation, determine the frequency of the dominant and recessive alleles for each trait in the class.

### Conclusions

1. Determine the frequency of each genotype in the class. (Remember that there are three genotypes for each trait that you investigated.)

<b>CHAPTER 19</b>	<b>Investigation 19.A: Applying the Hardy-Weinberg Equation (cont'd)</b>	<b>BLM 19.1.6</b>
<b>HANDOUT</b>		

- How closely would you expect your class results to match the genotype frequencies for the population of North America? Explain your answer.