

Bio I

Lab: Ugly Baby – Data Sheet

Ugly Baby Acquired Traits

- Sex of the offspring:

Traits	Trait Acquired	Traits	Trait Acquired
<i>Shape of face</i>		<i>Shape of eyebrows</i>	
<i>Cleft in chin</i>		<i>Position of eyebrows</i>	
<i>Hair</i>		<i>Size of nose</i>	
<i>Widow's peak</i>		<i>Shape of lips</i>	
<i>Spacing of eyes</i>		<i>Size of ears</i>	
<i>Shape of eyes</i>		<i>Size of mouth</i>	
<i>Position of eyes</i>		<i>Freckles</i>	
<i>Size of eyes</i>		<i>Dimples</i>	
<i>Length of eyelashes</i>			

Analysis

1. What percent chance did you and your partner have of “producing” a male offspring? A female offspring? Explain your answer.
2. Would you expect the other pairs of students in your class to have an offspring similar to yours? Explain your answer.
3. If a woman who is homozygous for almond-shaped eyes (AA) marries a man who is heterozygous for almond shaped eyes (Aa), what are the possible genotypes and phenotypes of their children?
4. What are the possible genotypes of the parents of a child who has wavy hair (Hh)?

5. Which traits in this investigation showed a blending of genes?
6. Did you think that anyone in your class has all the same genetic traits that you have? Explain your answer.
7. How might it be possible for you to show a trait when neither of your parents shows it?
8. Do you think you would have some genetic traits similar to your grandparents? Explain your answer.
9. There is a small village in a mountain valley in Spain where a large number of people are polydactyl (have more than five fingers or toes). Why does this trait tend to be passed on from generation to generation?
10. There have been cases in history where a king divorced his queen because she produced only daughters. Using your knowledge of genetics, explain why this was an incorrect move?