

Determination of Genotypes from Phenotypes in Humans

DATA AND OBSERVATIONS

Table 1

Human Phenotypes and Genotypes					
	Traits			Your phenotype	Your possible genotypes
	Dominant	Recessive			
PTC taste	Taster	Nontaster			
Hairline	Widow's peak	Straight line			
Eye shape	Almond	Round			
Eyelash length	Long	Short			
Tongue rolling	Can roll	Unable to roll			
Thumb	Hitchhiker's thumb	Straight thumb			
Lip thickness	Thick	Thin			
Hair texture	Curly	Wavy	Straight		
Inter-eye distance	Close together	Medium distance	Far apart		
Lip protrusion	Protruding	Slightly protruding	Not protruding		

ANALYSIS

1. Which traits do you have that are dominant?

2. Which traits do you have that are recessive?

3. Which of your traits are governed by incomplete dominance?

4. Which of your traits do you share with one or more of your classmates?
