

LAB Take a class Survey

Last Name _____, First _____ per. _____

Are traits controlled by dominant alleles more common than traits controlled by recessive alleles?

Materials : mirror, PTC paper, text page pg161

Hypothesis _____

Procedure: See text page 160

Data Table Dominant and Recessive Human Traits

	Trait 1 (Dominant)	number	Trait 2 (Recessive)	number
A	Free Ear Lobes		Attached ear lobes	
B	Hair on fingers		No hair on fingers	
C	Widow's Peak		No widows peak	
D	Curly Hair		Straight hair	
E	Cleft Chin		Smooth chin	
F	Can taste PTC		Cannot taste PTC	
	Total # of people with dominant traits		Total # of people with recessive traits	

Part 2 Find your trait number from the circle of traits chart on page 161

My trait number is _____

Complete the table of class data

T	#	T	#	T	#	T	#	T	#	T	#	T	#	T	#
1		9		17		25		33		41		49		57	
2		10		18		26		34		42		50		58	
3		11		19		27		35		43		51		59	
4		12		20		28		36		44		52		60	
5		13		21		29		37		45		53		61	
6		14		22		30		38		46		54		62	
7		15		23		31		39		47		55		63	
8		16		24		32		40		48		56		64	

Analysis

1. Make a list of the dominant traits that were shown by a majority of students.
2. Make a list of the recessive traits that were shown by a majority of students.

3. From the circle of traits chart on page 161, which trait number are you? _____

4. How many students ended up on the same trait number as you? _____

5. Which trait number had the most students? _____

6. How many students were the only ones to have their number? _____

7. What do the results suggest about a person's combination of traits?

8. Does your data support your hypothesis? _____

a. Explain your answer with examples _____

9. How would you design an experiment if you wanted to find the answer to this question.

Do related people show more genetic similarity than unrelated people?

Write a hypothesis, then design an experiment to test your hypothesis.

Hypothesis: _____

Procedure _____

