

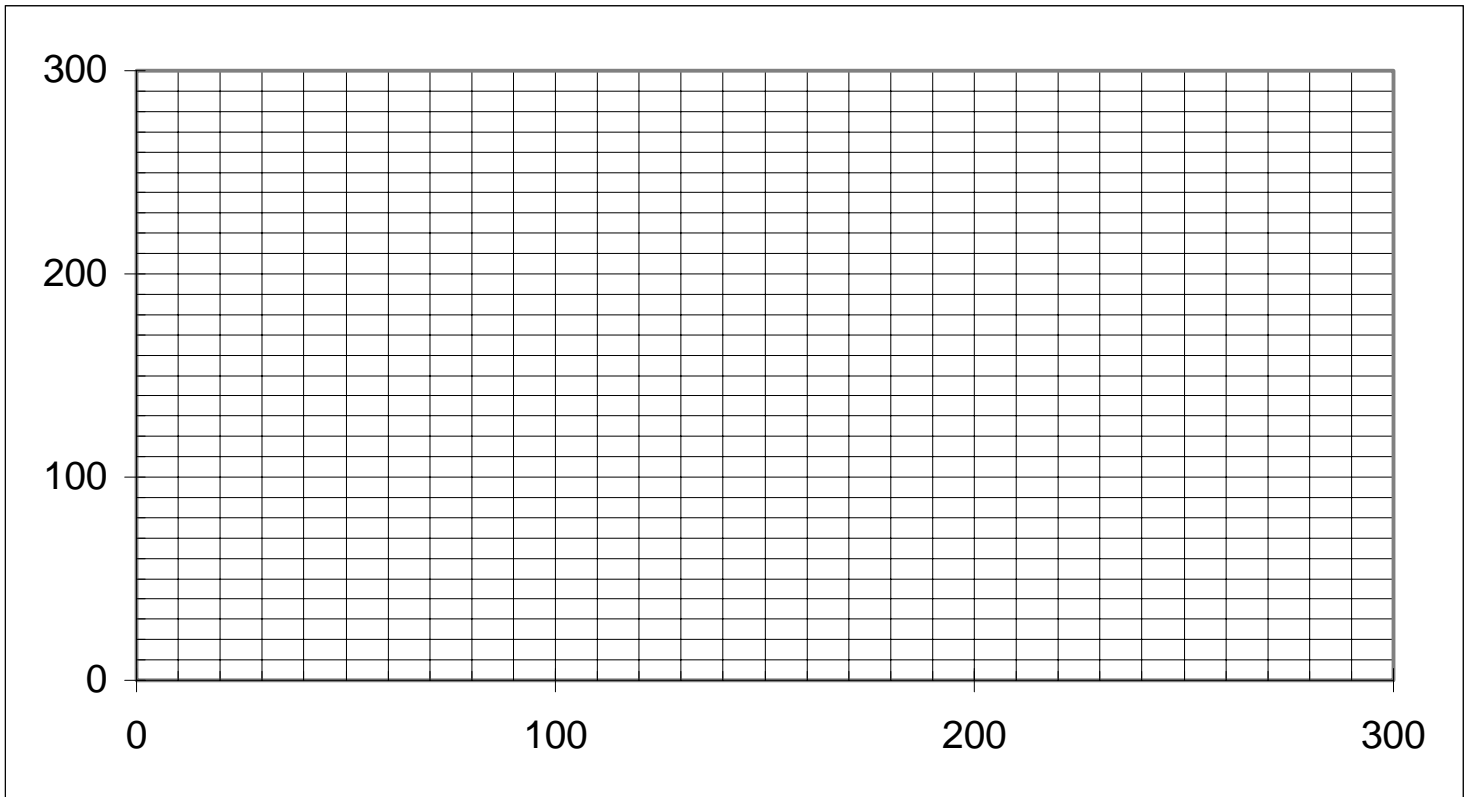
Data Analysis Exercise

Genetics Project

Instructions

For the trait that you have been assigned please conduct the following analysis:

1. Calculate the total number of people surveyed. ANSWER_____
2. Calculate the total number of people exhibiting the dominant trait. ANSWER_____
3. Calculate the total number of people exhibiting the recessive trait. ANSWER_____
4. Calculate the percentage of people exhibiting the showing the dominant trait.
ANSWER_____
5. Calculate the percentage of people exhibiting the showing the recessive trait.
ANSWER_____
6. Graph the number of people exhibiting the dominant trait vs. the number of people exhibiting the recessive trait. (use graph below)



Discussion Questions

1. According to your analysis, is the dominant trait seen more frequently than the recessive trait in the sample population?
2. After looking at the analysis that each group completed, what can you say about the appearance of dominant traits in populations? Are they always "dominant"?
3. Explain your answer to question #1 and explain its connect to evolution.
4. What can you say about the graph? Is there a pattern to the data?
5. What can you say about the relationship between the number of people with the dominant trait and the number of people with the recessive trait? What might this tell you about the ratio between traits in populations?
6. In looking at the analysis done by the other groups, did all of the graphs show a pattern? If not, why?