



How do we find and lend support to underlying relationships in science? Mendel, using traits and pea plants, is famous for being one of the earliest experimenters using measurements and statistics.

1. Research and introduce statistics along with how science experiments are done.
2. Write about the data (numbers) we counted for the dihybrid cross we observed in corn. Discuss sample size and it's effect on the average results when compared to predicted results.
3. Were there groups (lines of numbers) on the data sheet that had data that would not give anything near the expected results? Should some results be excluded? No? Explain what might have happened.
4. Research some ethical problems with growing corn on a modern farm? What might be some alternatives? Give your opinion.

Writings should be about three pages, about eight paragraphs, and include data tables of our results as well as expected results in appendices that do not count as the pages of writing. Discuss the results of two or three rows of corn kernels and include percentages from your own data. Compare the results to other groups and the maximum amount of data listed on the mrbeersteinscience.com website. Points awarded for using a data analysis package using these data and explaining some of the stats.

MLA format, less than 20% match on turnitin.com.

#### Corn Dihybrid Data from period 6

Yellow smooth	Yellow wrinkled	purple smooth	purple wrinkled	group #
60	91	203	67	1
246	75	551	179	3
88	19	246	179	4
92	49	291	118	2 and 5
164	48	417	143	6
100	25	27	75	11
35	18	86	28	9 and 12
866	53	128	55	no info.