

Summarizing Mendel's Data and Punnett Squares

The following are samples of student summaries of Mendel's data as related to Punnett squares.

*Green	G
Yellow	g

		Dad	
		G	g
Mom	G	GG Green	Gg Green
	g	Gg Green	gg Yellow

- Each trait has 2 pieces of DNA
- Offspring gets DNA from Mom + Dad

Mendel data shows ratio and probability. That's what the Punnett Square is showing probability. Punnett square shows what Mendel did. Mendel started then Punnett added on. You can use Mendel's data to see what the probability is. They have the same outcome. They both see the same thing 3 to 1.

1. These sources work together, because with Mendel's graph, it takes all of the numbers/calculations and it divides to get the ratio while Punnett's square gets the same ratio when finding all of the possible pairings.

2. The model of Punnett's square explains Mendel's data because it shows how a dominant feature "overrules" a recessive and how when you calculate the number of dominant squares to the number of recessive you get the same ratio Mendel got, 3:1.

3. Punnett's square could be used to predict what color eyes, hair color, hair type, etc. a baby would have by looking at the parents' features.

Shape - S_s - Round

Pod color - pp - yellow

Stem length - $L L$ - Long