

Biology 12 Genetics Review

1. Why was Mendel's choice of pea plants for studying inheritance such a good one?

Because of their short generation time. And they're cheap.

2. What is the Law of Segregation? What observations lead to Mendel developing this idea?

States that when gametes (sex cells) are formed, the two versions of each gene that the organism has will separate into different sex cells. Mendel thought of this after the recessive trait, that had disappeared in the F_1 generation reappeared in the F_2 . This means the F_1 plants had the recessive gene, but it was "hidden" by the dominant.

3. Although Mendel had described alleles as either dominant or recessive, that idea isn't quite complete. Explain.

At times there is neither a dominant nor recessive version of a gene. Rather they are both codominant or incompletely dominant.

4. What does the term "true-breeding" mean?

It's the old term for homozygous (either recessive or dominant).

5. Mendel did studies on P , F_1 , and F_2 generations, it was the F_2 generation that was the most important. Why is that?

The F_2 is where the recessive traits reappeared. This showed that the recessive version was in the previous generation, just hidden by the dominant.

6. If T represented tall – the dominant allele for stem length, and t represented short – the recessive allele for stem length, show through a Punnett Square the possible offspring from a cross of a heterozygous tall plant and a homozygous short plant.

	T	t
t	Tt	tt
t	Tt	tt

7. What is the phenotypic ratio and genotypic ratio for the cross above?

1:1 (tall : short), and 1:1 (homozygous recessive : heterozygous)

8. What is the difference between a one factor cross and a two factor cross? How did these lead to the development of the Laws of Independent Assortment and Segregation?

A one factor cross looks at one characteristic (like plant height) whereas a two factor looks at two characteristics (like plant height and flower colour). The

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