

AP Biology Genetics Problems

Independent Assortment (Mendel's 2nd)

1. Sample Problem: Two pea plants self-fertilize and produce the genotypic distribution shown. Is possible that one of these a pair of genes that assort independently with a third gene? What is the genotype of each? Explain/justify your answer.

2.

3. Self-fertilizing pea plants self-fertilize & assort with the following genotypes, what will be the phenotypic ratios for the offspring? What will be the genotypic ratio for the offspring?

They will all be tall, half will be green/yellow-seeded and the other half

Interdependence

4. Which is a pair of genes that assort independently based upon the data that I have? What will be the genotypic and phenotypic ratios of the offspring? Explain/justify your answer.

What would be the genotypic and phenotypic ratios of the offspring?

5. The genes for stem color, flower color, and seed shape assort independently. What are the genotypes of the parents? What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genes: C, W, S; c, w, s; Cc, Ww, Ss

6. A pea plant with the genotype CcWwSs is self-fertilized. What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genes: C, W, S; c, w, s; Cc, Ww, Ss

7. A pea plant with the genotype CcWwSs is self-fertilized. What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genes: C, W, S; c, w, s; Cc, Ww, Ss

8. A pea plant with the genotype CcWwSs is self-fertilized. What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genes: C, W, S; c, w, s; Cc, Ww, Ss

9. Is it possible that one of these is a pair of genes that assort independently with the other two? Explain/justify your answer.

They assort independently.

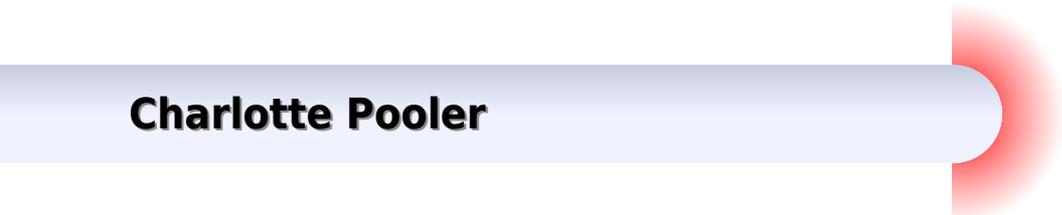
10. A pea plant with the genotype CcWwSs is self-fertilized. What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genes: C, W, S; c, w, s; Cc, Ww, Ss

11. A pea plant with the genotype CcWwSs is self-fertilized. What are the genotypes of the offspring? What are the phenotypic ratios of the offspring?

Genetics Problems Knight 2001 Answers

Charlotte Pooler



Genetics Problems Knight 2001 Answers:

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