

Chapter 11 Section Review Answer Key

Section Review 11-1

1. Mendel's principle of dominance states that some alleles are dominant and others are recessive. 2. A trait controlled by a dominant allele will be produced if there are two dominant alleles present or one dominant allele and one recessive allele. 3. A trait controlled by a recessive allele will be produced only when two recessive alleles are present. 4. Segregation is the process during gamete formation in which the two alleles are separated from each other so that each gamete carries only a single copy of each gene. With the pea plants, each F₁ generation plant produces two types of gametes—for example, those with the allele for tallness and those with the allele for shortness. 5. True-breeding plants allowed Mendel to pinpoint the cause of variation in traits because he could control which plants bred. Without true-breeding plants, Mendel would not have been able to draw his conclusions because there would have been too many variables. 6. Cross-pollination is the process of one plant fertilizing another, while self-pollination occurs when a plant fertilizes itself. 7. 225 plants will show the trait controlled by the recessive allele. 8. The trait controlled by the recessive allele would not have been produced in the resulting F₂ generation. Both F₁ generation plants need to have *rr* allele combination for the trait controlled by the recessive allele to be produced in one of the F₂ generation plants.

Section Review 11-2

1. Probability is the likelihood that a particular event will occur. The principles of probability can be used to predict the outcomes of genetic crosses. 2. Punnett squares are used to predict and compare the genetic variations that will result from a cross. 3. The seed color controlled by the dominant allele has a 50% probability of being produced and the seed color controlled by the recessive allele has a 50% probability of being produced. Students should have 25% and *Rr* in the upper and lower left boxes and 25% and *rr* in the upper and lower right boxes of their Punnett square. 4. Homozygous plants have two identical alleles for a particular trait, *TT* or *rr*. In contrast, heterozygous plants have two different alleles for a particular trait, *Tt*. 5. *Ff* and *FF* are different genotypes, but both combinations will produce the same phenotype, the trait controlled by the dominant *F* allele. 6. *TT* 25% 7. *Tt* 25% 8. *Tt* 25% 9. *rr* 25%

Section Review 11-3

1. segregate 2. multiple alleles, multiple genes 3. b 4. c 5. d 6. a 7. See punnett square 8. In incomplete dominance, the heterozygous phenotype is somewhere in between the two homozygous phenotypes. In codominance, the heterozygous phenotype shows both traits.

9. Polygenic traits have more variation in phenotypes because different combinations of alleles for these genes produce many different phenotypes. 10. Morgan chose fruit flies because fruit flies are easy to keep in the lab and they reproduce quickly, producing a great number of offspring.

Section Review 11-4

1. 7 2. 5 3. 10 4. 1 5. 8 6. 2 7. 6 8. 4 9. 9 10. 3 11. Mitosis produces two cells. Meiosis produces four cells. 12. Cells resulting from mitosis have a diploid number of chromosomes and are genetically identical to each other and to the original parent cell. Cells resulting from meiosis have a haploid number of chromosomes and are genetically different from each other and the original parent cell. 13. Both products of meiosis I and II are haploid cells. Two cells result from meiosis I, and four cells result from meiosis II. 14. Gamete formation in either sex is a result of meiosis. In males, the four cells resulting from meiosis usually all become gametes. In females, however, the cytoplasm is not divided evenly, so that only one of the four cells becomes a gamete. The other cells become polar bodies, which are not used in reproduction. 15. Each daughter cell would contain 14 chromosomes.

11.3 #7 answer

FFJj x FfJj

	<i>FJ</i>	<i>Fj</i>	<i>fJ</i>	<i>fj</i>
<i>FJ</i>	<i>FFJJ</i>	<i>FFJj</i>	<i>FfJJ</i>	<i>FfJj</i>
<i>Fj</i>	<i>FFJj</i>	<i>FFjj</i>	<i>FfJj</i>	<i>Ffjj</i>
<i>fJ</i>	<i>FfJJ</i>	<i>FfJj</i>	<i>ffJJ</i>	<i>ffJj</i>
<i>fj</i>	<i>FfJj</i>	<i>Ffjj</i>	<i>ffJj</i>	<i>ffjj</i>

Chapter Vocabulary Review

1. i 2. c 3. d 4. g 5. j 6. f 7. a 8. b 9. e 10. b 11. true-breeding 12. phenotype, genotypes 13. independent assortment 14. incomplete dominance, codominance 15. Crossing-over 16. b 17. a 18. d 19. c 20. c 21. b 22. d 23. a 24. b 25. d

Graphic Organizer

1. Production of gametes for sexual reproduction 2. Only in certain cells of the reproductive system 3. Two 4. None 5. Diploid to haploid 6. Eight—four in Meiosis I and four in Meiosis II. 7. Two 8. None

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Journal of the National Cancer

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Table of Contents Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key

1. Understanding the eBook Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - The Rise of Digital Reading Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Personalized Recommendations
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key User Reviews and Ratings
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key and Bestseller Lists

5. Accessing Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key Free and Paid eBooks
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key Public Domain eBooks
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key eBook Subscription Services
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key Budget-Friendly Options
6. Navigating Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key Compatibility with Devices
 - Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Highlighting and Note-Taking Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Interactive Elements Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
8. Staying Engaged with Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
9. Balancing eBooks and Physical Books Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Setting Reading Goals Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Fact-Checking eBook Content of Chapter 11 Introduction To Genetics Section Review 11 2 Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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