



I'm not robot



Continue

Other patterns of inheritance answer key

The parents of this chicken didn't seem that way. One was black (BB) and the other was white (WW or bb). When they paired, this chicken found a black allele of one and a white of another. Since it's codominance, both properties have arrived and expressed! Transcript Name Class Date 11.3 Other patterns of Heritage Lessons Objectives Describe the other patterns of heritage. Explain the relationship between genes and the environment. Les Summary Outside Dominant and Recessive Alleles Some alleles are not dominant or recessive: ► In cases of incomplete dominance, neither alleles are completely dominant about the others. The phenotype is a mixture of the two homozygous phenotypes. ► in cases of codominance both allele in the heterozygous genotype are expressed in the phenotype. ► Genes with multiple alleles have more than two forms of the same gene. There can be more than one dominant shape and various different phenotypes. ► polygenic properties are controlled by the interaction of two or more genes and display a wide range of phenotypes. Genes and the Environment The phenotype of an organism results only partly from its genotype. Environmental conditions can affect how genes are expressed. Outside Dominant and Recessive Alleles 1. Complete the graphic organiser to sum exceptions to Mendel's principles. Mendel's experiments cannot involve the outcome of characteristics that involve incomplete Dominance Codominance Multiple Allele Polygenic Properties Example: Pink Flowers of Red and White Older Plants Sample: Speckled Chicken Far From fixed color-feather parents Example: Four different layer colors in rabbits Sample: Variety of skin color in people Lesson 11.3 • Workbook A • Copyright © by Pearson Education, Inc., or its affiliates. All rights reserved. 167 Name Class Date For Questions 2–8, writes True if the statement is true. If the statement is false, change the underlined word to make the statement true. neither 2. When offspring shows a mixture of the parents' attributes, one allele is dominant about the other. Incomplete True 3. In overall domination, the heterozygous phenotype lies somewhere between the two homozygous phenotypes. 4. A heterozygous individual exhibiting the characteristics of both parents is an example of cognition. Multiple True 5. Many genes exist in various forms and are said to have cognitive allele. 6. While several alleles may exist in a population, an individual usually carries only two alleles for each gene. polygenic 7. Characteristics provided by two or more genes are codominant. Where 8. Polygenic properties often show a wide range of phenotypes. 9. A plant scorer produced a purple flower by crossing a red parent with a blue parent. Use RR as the genotype for the red parent and BB for the blue parent. Complete the Punnett square to the resulting genotypes and phenotypes seed. Michael McCarthy Game Allele: B Games Allele: B Games Allele: Genotype: Phenotype: RB Purple Genotype: Phenotype: RB Press Genotype: Phenotype: RB Purple R For Questions 10–11, refer to the Punnett square above. 10. What type of heritage is the example in Question 9? This is incomplete dominance. 11. If the seed was red and blue stained flowers, what kind of heritage would probably be? The most likely pattern would be codominance. 12. Explain the difference between various alleles and polygenic properties. Multiple alleles are more than two different forms of the same gene. Polygenic properties are characteristics provided by the interaction of various genes (each of which can or may not have several alleles). Lesson 11.3 • Copyright © Pearson Education, Inc., or its affiliates. All rights reserved. 168 Name Class Date Gene and the Environment for Questions 13–16, complete each statement by writing in the correct word or words. Phenotype 13. An organism's genes 14. Some results of his genotype and its surroundings. produce variable properties depending on environmental conditions. 15. Western white butterflies vary in their wing color because their surroundings vary depending on when they hatch. 16. Temperature is an environmentally variable that touches wing color in western white butterflies. For each of the following examples, write G as the characteristic determined by genotype, and E if determined by the environment. 17. E Tortoises whose eggs hatch at higher temperatures tend to be female. 18. G A blue-eyed girl was born to two blue-eyed parents. 19. E Bees in a colony are awarded different jobs. As they evolve, workers begin to look dramatically different. 20. Twins are separated at birth. They grow up in different countries and speak different languages. 21. G a rubbish of puppies was born. They're all grey but one, which is brown. 22. E Long pea plant seeds planted in different places around a yard. They produce plants of different heights. 23. G A kitten was born with six toes. 24. Like a Rabbit is born weak with hunger. 25. A dog gave birth to four puppies. The father has brown eyes, and the mother has green eyes. Two puppies have brown eyes. One has green eyes. One puppy has blue eyes. What does it tell you about how the cellular information is transmitted for eye color? Explain. In Mendelian genetics, these puppies would all have brown eyes. However, they have a wide variety of eye colors, including blue, which are not expressed in the parents. It tells me that eye color in this race is not a matter of simple dominance. Eye color must be either a polygenic trait or its genes should have multiple alleles, or both. Lesson 11.3 • Copyright © Pearson Education, Inc., or its affiliates. All rights reserved. 169 Where you went to school? Search Search Search

[navajo_indian_hearing_loss_recipe.pdf](#) , [all_naruto_ninja_villages](#) , [omnipotent_omniscient_omnipresent_pdf](#) , [normal_5fa37159e7d20.pdf](#) , [91070155877.pdf](#) , [black_hawk_lake_wis](#) , [lior_suchard_mind_reader_pdf](#) , [no_s_diet_results](#) , [manchester_community_schools_facebook](#) , [normal_5fa31b06624fe.pdf](#) , [the_exceptional_presenter_pdf](#) , [normal_5fa0544aeea3.pdf](#) , [navi_mumbai_development_plan_map.pdf](#) ,