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INCOMPLETE DOMINANCE PROBLEMS

1. If sweet pea plants with red flowers are crossed with sweet pea plants with blue flowers, all of the offspring have purple flowers. What percent chance is there of getting sweet pea plants with red flowers in the F₂ generation?
2. In one plant species, crossing a plant with red flowers to one with white flowers results in pink flowers. A white flower is crossed with a pink one. What percent of their offspring would you expect to grow up and produce pink flowers?
3. Whenever a tall corn plant is crossed with a short corn plant, all of the resulting corn plants grow to a medium height. What percent of the offspring would you expect to be homozygous tall when a medium corn plant is crossed with a tall corn plant?
4. If a brown kangaroo is cross with a red kangaroo, all of the joey's (baby kangaroos) are brown colored. How many of the twenty joeys in the F₂ generation would you expect to be brown?
5. In house mice, there is a gene that codes for tail length. Whenever a mouse with a short tail is crossed with a mouse with a long tail, all of the young have medium-lengthed tails. What percent of the offspring will have medium-lengthed tails when a mouse with a medium tail is crossed with a long-tailed mouse?
6. In Dalmatian dogs, the desired show dogs have small black spots. The mating of these show dogs always produces some offspring with solid white coats, some with large black spots, and some with the desired small black spots. What is the genotype of Dalmatian show dogs? Use the five-point plan to explain your answer.
7. Considering the information in problem 6, what percent of the litter would you expect to have the desired small spots when a Dalmatian with a solid white coat is crossed with a Dalmatian with large black spots?
8. Hair length in floppy-eared rabbits is due to an incomplete dominant gene. How many of the 200 rabbits in the F₂ generation would you expect to have long hair when a homozygous long-haired rabbit is crossed with a homozygous short-haired rabbit?

What's the Cross? Name: _____ Date: _____

1. Purple flowers are dominant to blue flowers. The P generation consists of a homozygous dominant (PP) and a homozygous recessive (pp) parent. What are the genotypes of the P generation? _____

2. What are the genotypes of the F₁ generation? _____

3. What are the genotypes of the F₂ generation? _____

4. What are the phenotypes of the F₂ generation? _____

5. What are the phenotypes of the F₁ generation? _____

6. What are the phenotypes of the P generation? _____

7. What are the phenotypes of the F₂ generation? _____

8. What are the phenotypes of the F₁ generation? _____

9. What are the phenotypes of the P generation? _____

10. What are the phenotypes of the F₂ generation? _____

11. What are the phenotypes of the F₁ generation? _____

12. What are the phenotypes of the P generation? _____

13. What are the phenotypes of the F₂ generation? _____

14. What are the phenotypes of the F₁ generation? _____

15. What are the phenotypes of the P generation? _____

16. What are the phenotypes of the F₂ generation? _____

17. What are the phenotypes of the F₁ generation? _____

18. What are the phenotypes of the P generation? _____

19. What are the phenotypes of the F₂ generation? _____

20. What are the phenotypes of the F₁ generation? _____

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SpongeBob Genetics Name: _____

1. For each genotype below, indicate whether it is a heterozygote (H) or a homozygote (H) or a homozygote (h).

2. Which of the genotypes listed above would be considered purebred?

3. Suppose that Patrick is blue and SpongeBob is purple. Describe the phenotype for each parent when they have children.

4. What are the genotypes of the P generation? _____

5. What are the genotypes of the F₁ generation? _____

6. What are the genotypes of the F₂ generation? _____

7. What are the phenotypes of the F₂ generation? _____

8. What are the phenotypes of the F₁ generation? _____

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Incomplete and codominance worksheet spongebob.

Incomplete and Codominance Worksheet Name: (Non-mendelian monohybrid crosses) Period: Date: Answer the following questions. Provide a Punnett square to support your answers where indicated. Express probabilities as percentages. For instance, a probability of one chance in ten would be 10%.

1. Explain the difference between incomplete dominance and codominance.

2. In some chickens, the gene for feather color is controlled by codominance. The allele for black is B and the allele for white is W. The heterozygous phenotype is known as erminette. a. What is the genotype for black chickens? _____ b. What is the genotype for white chickens? _____ c. What is the genotype for erminette chickens? _____ 3. If two erminette chickens were crossed, what is the probability that: a. They would have a black chick? _____ b. They would have a white chick? _____ c. They would have a pink chick? _____ Parents: _____ X _____ 4. A black chicken and a white chicken are crossed. What is the probability that they will have erminette chicks? _____ % Parents: _____ X _____ 5. In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (W). The heterozygous genotype is expressed as pink. a. What is the phenotype of a plant with the genotype RR? _____ b. What is the phenotype of a plant with the genotype WW? _____ c. What is the phenotype of a plant with the genotype RW? _____

6. A pink-flowered plant is crossed with a white-flowered plant. What is the probability of producing a pink-flowered plant? _____ % Parents: _____ X _____ 7. What cross will produce the most pink-flowered plants? Show a Punnett square to support your answer. Parents: _____ X _____ 8. Another type of non-mendelian trait: Multiple alleles. Human hair color is controlled by one gene with four alleles (with some incomplete dominance): H^BR = brown H^Bb = blonde h^RR = red h^Rb = black The possible genotypes and phenotypes: H^BH^BH^B or H^BH^Bb = blonde H^BH^BH^R or H^BH^Bh^R = brown H^BH^RH^R = auburn h^RH^RR or h^RH^Rb = red h^RH^Rb = black What do you think your parent's phenotypes and genotypes for hair color are? What are your phenotype and genotype for hair color? If someone with auburn hair has children with someone with red hair (but whose mother had black hair), what are the genotype and phenotype probabilities for their children? Bikini Bottom Genetics Incomplete Dominance Name: _____ SpongeBob loves growing flowers for his pal Sandy! Her favorite flowers, Poofkins, are found in red, blue, and purple. Use the information provided and your knowledge of incomplete dominance to complete each section below.

1. Write the correct genotype for each color if R represents a red gene and B represents a blue gene. Red - _____ Blue - _____ Purple - _____ 2. What would happen if SpongeBob crossed a Poofkin with red flowers with a Poofkin with blue flowers. Complete the Punnett square to determine the chances of each flower color. (a) Give the genotypes and phenotypes for the offspring. (b) How many of the plants would have red flowers? _____ % (c) How many of the plants would have purple flowers? _____ % (d) How many of the plants would have blue flowers? _____ % 3. What would happen if SpongeBob crossed two Poofkins with purple flowers? Complete the Punnett square to show the probability for each flower color. (a) Give the genotypes and phenotypes for the offspring. (b) How many of the plants would have red flowers? _____ % (c) How many of the plants would have purple flowers? _____ % (d) How many of the plants would have blue flowers? _____ % 4. What would happen if SpongeBob crossed a Poofkin with purple flowers with a Poofkin with blue flowers? Complete the Punnett square to show the probability for plants with each flower color. (a) Give the genotypes and phenotypes for the offspring. (b) If SpongeBob planted 100 seeds from this cross, how many should he expect to have of each color? Purple flowers - _____ Blue flowers - _____ Red flowers - _____ Worksheet created by T. Trimpe 2003 SpongeBob and his pal Patrick love to go jellyfishing at Jellyfish Fields! The fields are home to a special type of green jellyfish known as Goobers and only really great jellyfishermen are lucky enough to catch some on every trip. Many of the jellyfish are yellow (YY) or blue (BB), but some end up green as a result of incomplete dominance. Use this information to help you complete each section below.

5. What would happen if SpongeBob and Patrick crossed two "goobers" or green jellyfish? Complete the Punnett square to help you determine the probability for each color of jellyfish. (a) Give the possible genotypes and phenotypes for the offspring. (b) What percentage of the offspring would be yellow? _____ % (c) What percentage would be blue? _____ % (d) What percentage would be "goobers" (green)? _____ % 6. What would happen if they crossed a yellow jellyfish with a goober? Complete the Punnett square to help you determine the probability for each color of jellyfish. (a) Give the possible genotypes and phenotypes for the offspring. (b) What percentage of the offspring would be yellow? _____ % (c) What percentage would be blue? _____ % (d) What percentage would be "goobers" (green)? _____ % 7. What would happen if they crossed a blue jellyfish with a yellow jellyfish? Complete the Punnett square to help you answer the questions. If 100 jellyfish were produced from this cross, how many would you expect for each? Yellow - _____ Blue - _____ Goobers - _____ Worksheet created by T. Trimpe 2003 bikini. Selmark Mare on Cotys, \$ Bikini party! GENETICS BENJAMIN PIERCE 4TH EDITION PDF Bikini Belly Diet. Bikini Belly Burn 4.5 Incomplete Dominance and Codominance Jen s Bikini Diet. Bikini Hybrid Includes Isagenix Nutrition System Installation Instructions Safari Bikini Top GENETICS A CONCEPTUAL APPROACH 4TH EDITION FREE DOWNLOAD PDF Chicas en bikini transparente imagenes Genetics. Mendelian Genetics pdf (pdf) (pdf) pdf pdf 2006 (pdf) (pdf) Genetics. Genetics Vocab: 8-WEEK BIKINI BODY CHALLENGE MEAL PLAN pdf dictionary. english japanese pdf pdf MOMOFUKU COOKBOOK PDF PDF RUDIMENTAL COOKBOOK PDF PDF

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