I'm not robot!

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	GENETIC	S PRACTICE 1:	BASIC MENDELIAN GENETICS
ed y	ese genetics prol our solution.	blems. Be sure t	o complete the Punnett square to show how you
hu vo t igmi	mans the allele fi neterozygotes hav ent? What is the c	or albinism is rec ve children, what chance that a child	essive to the allele for normal skin pigmentation. If is the chance that a child will have normal skin will be albino?
	Α	а	normal pigment:
[AA	Aa	75% chance of AA & Aa
F			albino:
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Blood Type Practice

In a paternity case, a single mother claimed that a certain man was the father of her baby. The man denied it, claiming that her current boyfriend was the father. The court ordered a blood test (much cheaper than DNA testing) to see if he could be ruled out as the father. The mother was Type O and the baby was Type O. The man was Type AB. Is it possible that he was the father?





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Extending from the sources of Shariah in the Qur'an, hadith and the legal maxims of Islamic law to the discussion of issues such as freedom of religion, gender equality and human rights, Shariah Law: Questions and Answers connects the theoretical aspects of the law with how it is applied in the world today. At once scholarly and accessible, it is sure to be a vital resource for students, teachers and general readers, addressing as it does a range of contemporary concerns, including jihad, democracy, the environment, genetic engineering, human cloning, euthanasia and abortion.



Mendelian Grantics Problems

Nation

100

1. The annual plant Maplopopper greatly has two pairs of obcompanies 1 and 2. In this species, the prohebility that two traits a and b schedard at random will be on the same chremosanac of Mapilepapeur is the probability that they will both be on cheteriosanac l (1/2), times the probability that they will back be an chromosome 2 (also N): Trix W= 51, or 25%. This is after symbolized (20% of pain of decenosomera)

Human beings have 33 pairs of aluteransmass. What is the prehability that any tree-Parman traits selected at needows will be on the same chromosener?"

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N

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2. Arong Hersferil cetty there is a dominant allele called pschol; the individuals that have this allele lack horns. After college, yes become a cattle baran and stock your spread antirely with polled cartie. You personally make sure that each cow has no horns, and none does. Among the onlym that year, however, some grow homs. Angelly you dispuse of them, and make certain that no hormed adult has getten into your pastary. Nese has. The cent year, however, more however calves are bores. What is the source of your problem? What should you do to motify it?

. It. An inherited unit among buttan beings in Narway anoses afflicted individuals to have . very wavy hair, not unlike that of a sheep. The trait is called wordy. The trait is very evident when it eccurs its families; no child possessory woolly hair tailoss at least one parent does. Insight you are a Norwegian judge, and that you have before you a woollyhaired rate using his normal-haired wife for divorce because their first child has woollyhair but their second child has normal long, blonde hate. The hasband claims this constitutes evidence of infidelity on the part of his wells. Do you accept his closer? Austify your decision.

Complex Mendelian Genetics Problems

Incomplete Dominance: (Mixing/Blending)

 In Japanese four-o'clocks, the gene for red flower color (R) is incompletely dominant over the white flower color (W). For each of the following situations, predict the genotypic and phenotypic ratios.



Non mendelian genetics practice answer key. Practice problems in mendelian genetics answer key.

No. of Questions= 10 INSTRUCTIONS: To answer a question, click the button in front of your choice. A response will appear in the window below the question to let you know if you are correct. Be sure to read the feedback. It is designed to help you learn the material. You can also learn by reading the feedback for incorrect answers Return to List of Practice Quizzes Copyright \$ 1999-2012 by Dennis O'Neil. All rights reserved. 1A. The gene for hair color in rabbits has two alleles Q and q. Q is dominant and codes for white hair. Write out all the possible genotypes and phenotypes. There are three possible genotypes and phenotypes and phenotypes. phenotypes: Brown and white 1B. Using the above example, fill in the Punnett's Square of offspring genotypes if one parent is heterozygous and the other is white haired. If the pair of rabbits have a litter of 24 babies, write out the expected number of each genotype and phenotype in the table below. heterozygous parent Q q white-haired parent q Qq qq q Qq qq Genotype Phenotype Expected Number Qq Brown 12 qq White 12 2A. The gene for plant height in sunflowers has two codominant alleles, T1 of rate plants. If a tall plant is crossed with a short plant, fill in the table below. tall parent T1 T1 short parent T2 T1T2 T1T2 T1T2 T1T2 T1T2 T1T2 Phenotype: T1T2 Phenotype: Medium Height (100%) 2B. Take any two of the seedlings from part 2A and cross them. Fill in the results below. T1 T2 T1 T1T2 T2 T1T2 T2T2 Genotype Phenotype Expected Number T1T1 Tall 25% 3A. Sex expression in mammals (including humans) is controlled by the X and Y chromosomes. Females are XX and males are XY. Since cells of the body contain 46 chromosomes, mom must give 23 to baby and dad must give 23 as well. Mom gives 1 sex chromosome to each of his sperm along with 22 body chromosomes. Fill in the possible sex chromosomes contributed to sperm and egg in the table below. If mom and dad have 8 kids, show the expected number of boys and girls below: Dad X Y Mom X XX XY Genotype Phenotype Expected Number XX Female 4/8 (50%) 3B. Why do some families end up with unequal sex ratios (more boys or girls)? With small sample sizes, you can get greater deviations from the expected probabilities. While the population of the city is likely to have a sex ratio very close to 50:50, a particular family might not. 3C. Colorblind. If mom is normal (not a carrier) and dad is colorblind, fill in the tablecastic trait caused by an error on the X chromosome. XA=Normal Vision and Xa=Colorblind. below: Dad Xa Y Mom XA XAXa XAY Genotype Phenotype Expected Number XAXa Female, Normal 2/4 (50%) XAY Male, Normal 2/4 (50%) & None of the children will be colorblind, but the girls are carriers and can pass it down to half of their children. 3D. Let's do the same problem again, but this time with a carrier mom and normal dad. Neither parent is colorblind. XA=Normal Vision and Xa=Colorblind. Dad XA Y Mom XA XAXA XAY Xa XAXA XAY Male, Normal 1/4 (25%) XAY Male, Colorblind 1/4 (25%) XaY Male, Colorblind 1/4 (25%) XaY Male, Normal Na=Colorblind 1/4 (25%) XaY Male, Normal 1/4 are colorblind. 3E. Why are more males in the population colorblind than females? Because colorblindness is carried on the X chromosome and males have two X chromosomes, so they would need two copies of the defective X in order to be colorblind. There are only two genotypes for males (XAY and XaY) but there are three genotypes for females (XAXA, XAXa, XaXa). Males cannot be carriers; they either have it or they don't. 4A. In guinea pigs, two different genes affect the coat. One gene codes for coat color and there are 2 codominant alleles C1=Brown and C2=White. The heterozygous form is tan colored. The second gene codes for presence of hair with H=hairy (dominant) and h=hairless (recessive). If mom is C1C2hh C1C2h C2h C1C2Hh C1C2hh C1C2hh C1C2hh C1C2hh Genotypes phenotypes fraction produced C1C1Hh Brown, Hairy 4/16 (25%) C1C2hh 4B. If we didn't know the genotypes of the parents, but mom is hairless and dad is tan haired, and the babies produced included brown, tan, white, and hairless, can bairless, can bairless and dad is tan haired. you guess the genotypes of the parents? Mom must be hairless. If there are both brown and white haired babies, she must be c1C2 If dad is tan, dad must be heterozygous for coat color, so he is C1C2 If some of the babies are hairless but dad is hairy, then he must be heterozygous for hair, Hh Therefore dad is C1C2 Hh Biology 198 PRINCIPLES OF BIOLOGY Answers to Mendelian Genetics problems Updated: 21 August 2000 PROBLEM 1. Hypothetically, brown color (B) in naked mole rats is dominant to white color (b). Suppose you ran across a brown, male, naked mole rats is dominant to white (totally recessive) female, and examine the offspring produced. Now, if only 2-3 offspring were born and they were all brown, you'd still be uncertain whether he was BB or Bb (for instance, even though the odds are 50:50 that you will produce a boy or girl, there are plenty of people that produce 4-5 girls and never a boy and vice versa). But, if the mole rats produce 50 offspring and all are brown, then it is likely that no hidden alleles are present and that the male is BB. But, what if white offspring are produced? You'd know that the brown parent had a hidden little "b" allele. So, what you need to do is perform a testcross on this brown, male, heterozygous, naked mole rat. What are the expected genotypic and phenotypic ratios of such a cross? If the brown male had been BB, then all offspring would have been Bb and all brown. However, if the male is Bb as above and you perform a testcross, 50% of all offspring should have the bb genotype and a white phenotype. A testcross to a heterozygous individual should always yield about a 1:1 ratio of the dominant to recessive phenotype. So, both the genotypic and phenotypic ratios here are 50:50. PROBLEM 2. What if you bred some snap dragons and crossed a homozygous white plant (rr)? In botony, "true breeding" means homozygous. In this case, 100% of the F1 individuals would be pink! This is an example of "incomplete dominance," where both alleles contribute to the outcome. In some cases of incomplete dominance, both alleles might contribute equally so one allele may be non-functional. Although in many cases only a single allele is needed, perhaps in this case only one-half the amount of needed pigment is produced and so pink is due the low amount of red pigment in the petals. Who knows, Anyway, use a Punnett's square and set up a cross between a homozygous red plant and a homozygous red plant. well (i.e. F1 x F1). Then, determine the phenotypic and genotypic ratios. You'll note that 100% of all offspring are Rr, which is the genotype encodes a pink color, then 100% of the phenotypes will be pink (NOT red - remember that this is incomplete dominance). Now then, you need to perform a second cross between the offspring. Since all offspring are Rr, then the cross will be Rr x Rr. You'll note here that all offspring are not pink. Your genotypic ratio is 25% (RR), 50% (Rr), and 25% (rr). The phenotypic ratio is also the same in this case, with 25% red (RR), 50% pink (Rr), and 25% white (rr). PROBLEM 3. You know that the possession of claws (WW or Ww) is dominant to lack of claws (ww). You also know that the presence of smelly feet (FF or Ff) is dominant to non-smelly feet (if). You cross a male who is clawed and has smelly feet (if). clawed. What are the genotypes of the parents? Answer: Start with what you know early in the story: Dad is clawed, so he has at least one big W or little w at this point. He also has smelly feet, so again you know he has one big F but you cannot decipher the second allele at this time. Mom is clawed so she has at least one big W, but the other allele remains unknown. She has non-smelly feet, so she has the recessive characters and can only be "ff." So, based on the above, we know this much: Dad is (W ? F ?) and Mom Mom's little f's and about about one-half of the children would have ended up with non-smelly feet (ff). That didn't happen, so Dad must be FF (homozygous dominant). Now then, look at any recessive individuals that may be un-clawed. There are four, and all must be ww. Each child got a little w from Mom. So, both parents must be heterozygous (Ww). Note that just like the monohybrid crosses, how important the recessive offspring are in these types of problems. You automatically know that each parent had that hidden recessive allele based solely on the phenotype of the offspring. So, you figured out the problem without any Punnett squares and the parents are as follows: Dad is "WwFF" and Mom is "WwFF" and Mom is totally heterozygous for 2 genes that are not linked (i.e., not on the same chromosome). One gene is for small ears) and the other gene is for small ears) and the other gene is for buggy eyes (BB and Bb for buggy eyes whereas bb represents normal eyes). If you testcross this individual, what are the resulting genotypes and phenotypes? Answer: Remember that a testcross represents a cross with a totally recessive individual. These types of crosses are useful in weeding out hidden recessive alleles from your unknown. Remember the information on recessives if you don't remember aabb aabb Thus, you get the following... PERCENTAGES GENOTYPE PHENOTYPE 25% AaBb Big ears, hormal eyes 25% AaBb Big ears, normal eyes 25% aabb Small ears, normal eyes 25% aabb Small ears, buggy eyes 25% aabb Small ears, hormal eyes 25% aabb Small ears, normal eyes 25% aabb Small ears, hormal eyes 25% abb Small ears, hormal eyes 25% aabb Small ears, hormal eyes 25% aabb Small ears, hormal eyes 25% abb Small ears, hormal ey offspring from the above cross. What if the actual ratios in your testcross were not 1:1:1:1, but were as follows. What would this represent? PERCENTAGES GENOTYPE 48% aabb Small ears, normal eyes 2% Aabb Big ears, normal eyes 2% Aabb Big ears, buggy eyes 2% Aabb Big ears, buggy eyes 48% aabb Small ears, buggy eyes 48% aabb Small ears, buggy eyes 2% Aabb Big ears, buggy eyes 2% aabb Small ears, buggy eyes 48% aabb Small ears, buggy eyes 2% aabb Big ears, buggy eyes 2% aabb Big ears, buggy eyes 2% aabb Small ears, buggy eyes 2% aabb Big ears, buggy eyes 2% aabb Small ears, buggy eyes 2% abb Small ears, buggy eye have a totally heterozygous individual, and you get this type of lopsided percentage during the testcross, you have discovered that the A and B genes are linked (i.e. they occur on the same chromosome). Thus, they are NOT assorting independently as Mendel states in his second law. If they were, you would get the 1:1:1:1 ratios. The genotypes and phenotypes with the small percentages (Aabb and aaBb) represent outcomes that were produced due to "crossing over" (during Meiosis I, some homologous chromosomes broke between the 2 genes and DNA was exchanged). Because the percentage of these oddball recombinants was low, then it is likely that the genes are fairly near one another. If the percentages of these middle two combinations were 10-12% each, then the distance between the genes would be greater. In this case, "A" and "B" are on the same chromosome (except for the ones that just crossed over). PROBLEM 6. The following is a genetic linkage problem involving 4 genes. You want to determine which of the genes are linked, and which occur on separate chromosomes. You cross two true breeding (i.e., remember that this means that they are homozygous) plants that have the following characteristics: PLANT 1 PLANT 2 Red flowers White flowers Spiny seeds Smooth seeds Long pollen grains Short pollen grains Late blooming Early blooming Following the above cross, all of the offspring have red flowers, spiny seeds, long pollen grains, and early blooming (meaning, that these traits are dominant). You then testcross the F1 generation, which you should realize by now are totally heterozygous individuals, and obtain the ratios below. What's going on? 49% redspiny 25% red-long 25% red-early 25% long-early 1% red-smooth 25% red-late 25% long-late 1% white-spiny 25% white-long 25% white-late 25% short-early 49% white-spiny 25% white-late 25% short-early 49% white-late 25% short-late Answer: A little more difficult, but still something you should be able to figure out. Obviously from the above, the red/white flowers and the spiny/smooth seed traits are not assorting independently. If they were, we would see the 1:1:1:1 ratios (25%:25%:25%) represented for the other sets of genes. Therefore, the flowers and the allele for spiny seeds are on the same homologue (except for 2% of the offspring, which are a result of the crossover). Conversely, the allele for smooth seeds are on the same chromosome (again, except for the 2% of the offspring that are a result of crossing over). Since all of the other crosses are 1:1:1:1, then all other genes are on chromosomes separate from the first 2. Therefore, 3 separate chromosomes are involved. PROBLEM 7. The following is a genetic linkage problem also involving 4 genes. You want to determine which of the genes are linked, which occur on separate chromosomes, and the distances between the linked genes. You cross 2 true breeding (i.e. homozygous) plants that have the following "unusual" characteristics: PLANT 1 PLANT 2 Red flowers White flowers Units for the offspring have red flowers, long pollen grains, give smart backtalk, and have a nice disposition (meaning that these traits are dominant). You then testcross the F1 generation, and obtain the ratios below. How many chromosomes are involved in the linkages, and what are the positions of the linkages, and what are the positions of the linkages, and what are the positions of the linkages are involved in the ratio below. How many chromosomes are involved in the linkages, and what are the positions of the linkages, and what are the positions of the linkages are involved in the ratio below. red-nice 7% long-nice 5% white-long 25% white-dumb 25% short-dumb 25% short-mean 45% white-short 25% short-smart 48% white-short 25% short-smart 48% white-short 25% short-smart 48% white-short 25% short-dumb 25% short-dumb 25% short-smart 48% white-short 25% short-smart 48% white-smart can see that red/white and long/short are on the same chromosome and are 10 (5 + 5) units apart (see below). Also, red/white and mean/nice and short/long are on the same chromosome as red/white, they too are linked as can be seen in column five and are 14 (7 + 7) units apart (see below). The gene for smart/dumb must exist on a second, separate chromosome by itself. CHROMOSOME: mean/nice red/white long/short (mean/nice is separated from red/white by 4 linkage units) (red/white is separated from long/short by 10 linkage units) (mean/nice is separated from long/short by 14 linkage units) PROBLEM 8. In the ABO blood system in human beings, alleles A and B are codominant and both are dominant and both are dominant to the O allele. In a paternity dispute, a type AB woman claimed that one of four men was the father of her type A child (the child would be type A with a genotype of either be AA or AO). Which of the following men could be the father of the child on the basis of the evidence given? The Type A father? Answer: In this case, a type A person would have one of the following genotypes: AA or AO. A man with either of these genotypes could be the father as the mother would donate the A allele to the child and either an A allele from the father or an O allele from the father would produce a child with Type A blood. The Type B father? Answer: In this case a type B father would have either the genotype BO could be the father as the mother would donate the A allele to the child and an O allele from the father would produce a child with Type A blood. The Type B father? father? Answer: In this case a type O person would have the genotype CO. A man with this genotype could be the father as the mother would produce a child with Type A blood. The Type AB father? Answer: In this case a type AB person would have the genotype AB. A man with this genotype could be the father as the mother would donate the A allele from the father would produce a child with Type A (i.e. AA) blood. NOTE: In this case, none of the men can be excluded from possible paternity. I guess they'll need to do genetic testing. PROBLEM 9. A brown-eyed, long-winged fly is mated to a red-eyed, long-winged fly. The progeny are: 51 long, red; 53 long, brown; 18 short, red; 16 short, brown Using solely the information provided, what are the genotypes of the parents? Answer: In this case, it is easier to look at each locus separately. At the wing locus, we have two long-winged flies and 34 short-winged flies and 34 short-winged flies and 34 short-winged flies are the genotypes of the parents? flies. This is very close to a 3:1 ratio that we would expect from a monohybrid cross. Thus, the parents must be heterozygous (Ll) at the wing-length locus, we have a red-eyed fly crossed with a brown-eyed fly to yield 69 brown-eyed flies and 69 red-eyed flies. This is a 1:1 ratio, which is what we would expect from a monohybrid testcross. However, we do not know which is dominant, red eyes or brown eyes. Thus one parent is heterozygous (Rr) at the eye color locus. Combining the information from the two loci, possible genotypes for the parents are LlRr for the brown-eyed, long-winged parent and Llrr for the red-eyed, long-winged parent. The other possibility is Llrr for brown-eyed, long-winged and LlRr for red-eyed, long-winged and long-wi syndrome) is recessive (cc). Her father is a Cyclops, as well as her mother. Her father's mother was a Cyclops, he had to have at least one big C. However, it is unknown if his other allele was big C or little c. But, interestingly enough, her father's mother was normal. Since normal is recessive (cc), then she could only donate a little c to her son. Thus, the bizzare woman's father is heterozygous (Cc). PROBLEM 11. In calico cats, there is an X-linked gene with 2 alleles that control fur color. BB is a black female; B'B' is a yellow male; and B is a black male. You have recently taken over judge Wapner's job on the People's Court and a woman brings in a black female cat that has given birth to 4 calico female kittens. You must decide which of the defendent's male cats is guilty: the black one or the yellow one. Answer: Note first that the mother, a black female, a black female, a black female, a black female cats is guilty: the black one or the yellow one. Answer: Note first that the mother, a black female, a black female, a black female cats is guilty: the black one or the yellow one. Answer: Note first that the mother, a black female, a black female, a black female cats is guilty: the black one or the yellow one. only has big Bs to offer. The black male kittens are of no help in the problem as they got their B alleles (each a single B on a single B on a single B on a single B on a single A-chromosome) from their mother was black; thus, they had a yellow (B') father. PROBLEM 12. A common form of red-green color blindness in humans is caused by the presence of an X-linked recessive allele. Given simply that, please answer the following: Can two color-blind parents give birth to a normal alleles to give to the offspring. Can two normal parents produce a color-blind daughter? Answer: No. Dad will give all of his daughters a normal allele. Thus, even if Mom has a hidden recessive allele, the worst case senario is that the daughter would be heterozygote. Can two normal parents produce a color-blind son? Answer: Yes. If Mom has a hidden recessive allele, 50% of the sons will be color-blind. The other 50% will get her normal allele and be normal. PROBLEM 13. When studying an inheritance phenomenon, a geneticist discovers a phenotypic ratio of 9:6:1 among offspring of a given mating. Give a simple, plausible explanation of the results. How would you test this hypothesis? Answer: As 9:6:1 appears to be a variant of the standard 9:3:3:1 ratio you would expect from a dihybrid cross, the simplest explanation is that this result is from a dihybrid cross in which epistasis" is when a pair of alleles (i.e. a recessive) pair, cover up the expression of a dominant allele at another locus (i.e., 1 set of alleles is masking another). In this case, you would expect the phenotypes to have the have the genotypes given below. 9/16 A? B? 6/16 A? bb and aaB? 1/16 aabb However, to better examine this, you would need to perform a series of test crosses to see if the results of your crosses match your predictions. I didn't ask for that in the problem, but the problem below covers this. PROBLEM 14. In an epistasis situation, PP or Pp is purple and pp is yellow. CC and Cc encode the ability to produce color whereas cc prevents, P from functioning to produce color). Given the following parental matings, provide the ratios of the offspring that are either purple, yellow, or albino. Remember: all offspring must have at least one big C to produce color or they will be albino. OFFSPRING RATIOS FOR EACH OF YOUR ANSWERS PPCC x PPCC 1 0 0 all offspring PPCC and will have at least one big C and one big P PPCC x ppcc 1 0 0 all offspring PpCc and will have at least one big C and one big P ppcc x ppCc 0 1 1 one-half ppCc and one-half ppCc (albino); 4 will be PPCc (albino); 4 will be PPCc (albino); 2 will be PPCc (albino); 4 will be PPCc (albino); 4 will be PPCc (albino); 2 will be PPCc (albino); 4 will be PPCc (albino); 2 will be PPCc (albino); 2 will be PPCc (albino); 4 will be PPCc (albino); 2 will be PPCc (albino); 2 will be PPCc (albino); 4 will be PPCc (albino); 2 will be PPCc (albino); 4 will be PPCc (albino); What's New | Help | Comments Kansas State University | Biology Division

07/08/2022 · Chapter 18 Practice Test Practice test: Mendelian Genetics & Mechanisms of Heredity. ... Practice Problems Explaining & Analyzing Processes of Life in ... Answers and detailed explanations to each ... Content is accurate, but limited. Using Wikipedia as a resource is not really best scientific practice. Relevance/Longevity rating: 3

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