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Lab activity blood type pedigree mys

		Possible alleles from Father		
		A	B	O
Possible alleles from Mother	A			
	B			
	O			

QUESTIONS:
 Q10. To answer the following questions, use all possible blood types.
 Q11. What blood type (or types) can be found in an offspring if a mother has type A blood and the father has type B blood?
 Ans:
 Type C blood and the father has type B blood.

Q12. What blood type (or types) can be found in an offspring if a mother has type AB blood and the father has type B blood?
 Ans:
 Type C blood and the father has type B blood.

CONCLUSION:

Genetics Pedigree Worksheet

Biology 520

Name _____

A family tree of sorts is called a pedigree. The symbols used for a pedigree are:

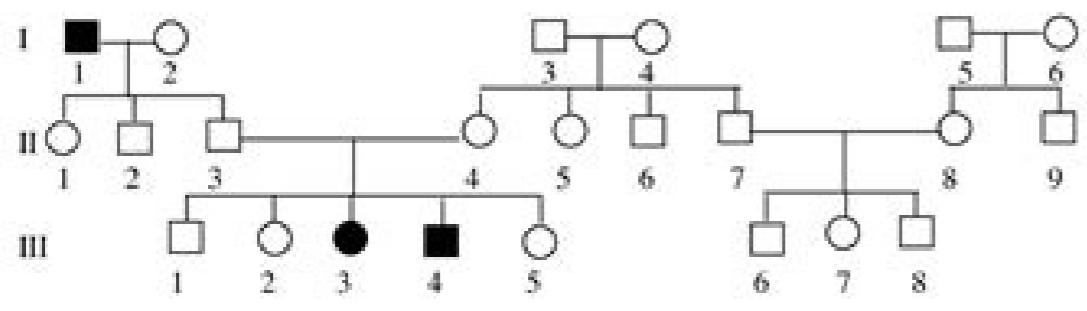
female, unaffected

female, affected

male, unaffected

male, affected

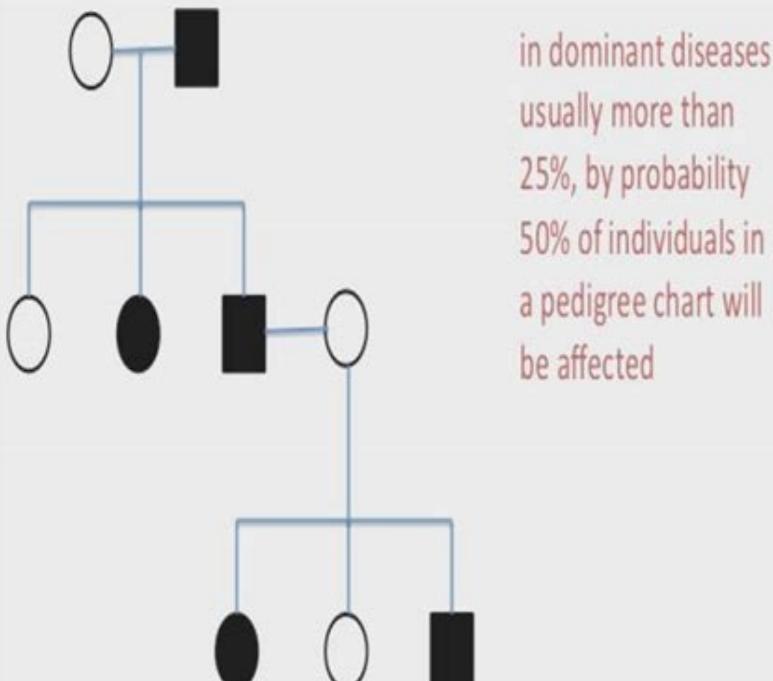
Siblings are placed in birth order from left to right and are labeled with Arabic numerals. Each generation is labeled with a Roman numeral. Therefore, the male exhibiting the trait in the pedigree below in the bottom, center would be identified as III-4.



Try to identify the genotypes of all of the individuals above.

- Is this trait dominant or recessive? Explain your answer.
- Could you have known the genotype of II-3 and II-4 before they had children? What gave you the essential information to decide that they were heterozygous?
- Brown eyes are a dominant eye-color allele and blue eyes are recessive. A brown-eyed woman whose father had blue eyes and whose mother had brown eyes marries a brown-eyed man whose parents are also brown-eyed. They have a son who is blue-eyed. Please draw a pedigree showing all four grandparents, the two parents, and the son. Indicate which individuals you are certain of their genotype and where there are more than one possibility.

Disease caused by a dominant (D) allele



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MODULE 2 LAB (Pedigree)

Activity: Identify the type of pedigree that you have been given. For each pedigree, determine whether the pedigree is: (a) Dominant or Recessive; (b) Autosomal, X-linked, Y-linked.

All of the given pedigrees are for single gene disorders. A single gene disorder, as the name implies, is a disorder that is caused by a mutation in a single gene. For a review of the pedigree symbols, please consult your textbook, Chapter 4 page 7.

As you look at the pedigree, follow the following steps:

* Is the trait skip generation? If so, this could be a recessive trait. Y-linked traits never show up in a female.

* Are all the children from an affected mother showing the trait? Is this a trait that can be passed from the mother to all of her children, but cannot be passed on by the father? If so, this could be a dominant trait.

* Does the trait skip generation? If so, this could be a recessive trait. A dominant trait will not skip a generation.

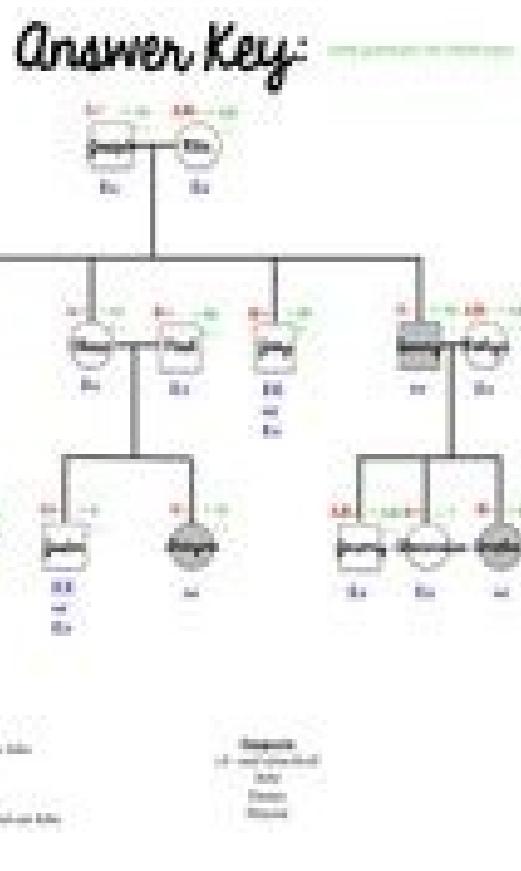
* Do unaffected parents (both Mom and Dad are unaffected) give rise to an affected child? If so, this would be an autosomal recessive trait.

* For every pedigree that is not Y-linked or mitochondrial, try to determine the genotype of each individual in the pedigree using both autosomal alleles and X-linked alleles and see which fits better.

* Do not forget that when using the X and Y chromosomes, females will be XX and males will be XY.

Answers in Blackout:

Once you have determined what kind of pedigree each one is, enter your answers in Blackout! Each question is a Multiple answer question and you will need to choose two options that best fit the pedigree. Choosing more than two answers will lead to negative scoring.



Answer Key:

Answer Keys
Use the first page of each document to print the answer keys. If you have more than one download file, the first file contains all the answer keys. This is developed to reflect the activities. As a result, the answer keys are not always in the same place as the activity. If there is a conflict between the activity and the answer key, the activity is correct.

1. Inherit the inheritance pattern of the trait you determined here. Do this by drawing a pedigree chart for your family. Use the pedigree chart to see if anyone has the trait. Then determine if it is dominant or recessive. If it is dominant, then the trait will be present in every generation. If it is recessive, then the trait will only be present in some generations.
2. Inherit the inheritance pattern of the trait. Grandpa has the trait. Grandpa's son has the trait. Grandpa's daughter does not have the trait. That is an example of dominant trait in the first generation.
3. When did the trait appear? Explain in detail how the trait was passed down from the first generation to the second generation. How did the trait appear in the second generation? Who had the trait? Who did not have the trait? Explain how the trait was passed down from the first generation to the second generation.
4. Who has the trait in the family? Show all the generations that had the trait. Explain how the trait was passed down from the first generation to the second generation. Who had the trait? Who did not have the trait? Explain how the trait was passed down from the first generation to the second generation.

DETAILED ANSWER KEY SO NO-PREP NECESSARY!

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They then determine the genotypes of family members in order to identify the thief. In this laboratory activity, students will solve a crime of theft using their knowledge about pedigrees and trait heritage (an attachment in the ear of the ear and sanguine type) to create a pedigree of a family Mysterious. * Notice * Do not buy if you have already bought my hereditary drive package or complete curriculum of biology because you already have this product! How can I use this? A " " | A " " | A A A A A A A A A A " " for the blood type domain, pedigrees, and basic inheritance patterns which are included? 1 pages of implementation notes Teacher (PDF) 3 Student Flyer Pages (PDF) Student Digital Flyers Version that can be accessed in Google Drive (and then downloaded and imported into Microsoft OneDrive) response key (PdF) editable model of the first page of students' leaflets so you can customize the mysterious scenario to occur where you live! Children love when this is customized! (.ppx) How much class time will this lead? For the student's student, this takes 50 minutes at 1 hour. These are the three best ways to keep up with what is happening in no rocket Science! ** Terms of Use ** You can. Use this item for your own classroom, students, or for your own personal use. Credit is Given to My Store / Product. You May Not: Upload this Product to For UN Secure Website For Them (this includes emailing, printing copies, or sharing through the website .margatsnf .margatsnf on em-agiu liam-e ed atsil ahniñ Á es-ethnij TPT on em-agis .edadeiratidereh ed edadini ed etocap uem od etrap zaf otudorp etsE ?siam resiug ue es E luqá sotirovaf suem so sodot racifirev edoP ?edadeiratidereh e acit@Aneg ed solsruer sortuo rop otdnarucorp revits ue euq O .setnednecs arap siap ed sadassacu sacitsArctacar ed sejAÁurtsni sad ofAÁacifidoc an somosomorc so e AND od lepap o erbos sotnemanicalec receralce arap satnugrep aÁAf 1-3SL-SH o moc odahnila @Á, etnemacificepsE lmiS ?" ofAÁareg amix@Rp ad ainc@Aic ed sejArdap so odahnila @Á ossi lsodip@Ar snif arap ofAÁapo amit@A amu omor edadeiratidereh ed ubat ed sejAtrac suen arfnoC ?sednrb e ,ststopgb ,sadnes ,otudorp sovon erbos odazilaute racif arap oÁaf omoC lahet @Ácov euq satnugrep reugisauq a rednospse airaroda uE moc.liamg@erotseneicstekecortonti on lime mu em-eivnE ?tmugrep amr revit ue es E luqá odahnila es racifrev ed es-euqiftreC .odec siam sotunin 01 uo 5 manimret ueq seleuqa arap lanocida edadivita amu ret a odajarcene @Á ossi rop ,etnemadipar siam ofAranimre soda@Anava sonula sO .oinÁcoicar e savorp moc satcopser saus ofArednefed e satrehbcsed saus erbos satnugrep a ofArednopser sonula so ,oir@Atarobal ed edadivita ad lanf oN .ol;Assodne ofAn e otudorp etsed ofAÁudorp an odivlovne ofAÁareg amix@Rp ad ainc@Aic ed sejArdap so marevlovesed euq soriecrap e sodinU sodatsE so men ra@Anacla meN .ecnaca ed adartsiger acram amu @Á SSGN :atoN *.adnev arap ue etnematiutarg sortuo soa recereo arap otnemucod etsed etrap reuqlauq racidom uo raiopC).eder artuo uo

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