

11. Draw a pedigree that represents Leah married to Aiden, with 2 sons and 1 daughter. Their son, Scott, married April and had Sutton (a boy) and Kendall (a girl). Their daughter, Karen, married Harry and had Eli (a son) and Tariq (a son). Please label the pedigree with the names of the people.



12. When working through a pedigree, the first thing you need to do is figure out which characteristic is dominant – the shaded one or the un-shaded one. Then you need to choose a letter (let's use A) and begin assigning genotypes. Remember that recessive individuals are always homozygous, so assign their genotypes first. Then go back and look at all of the dominant individuals. For some, you will only be able to determine one allele of the genotype, so just write the one capital allele followed by a question mark (A?).

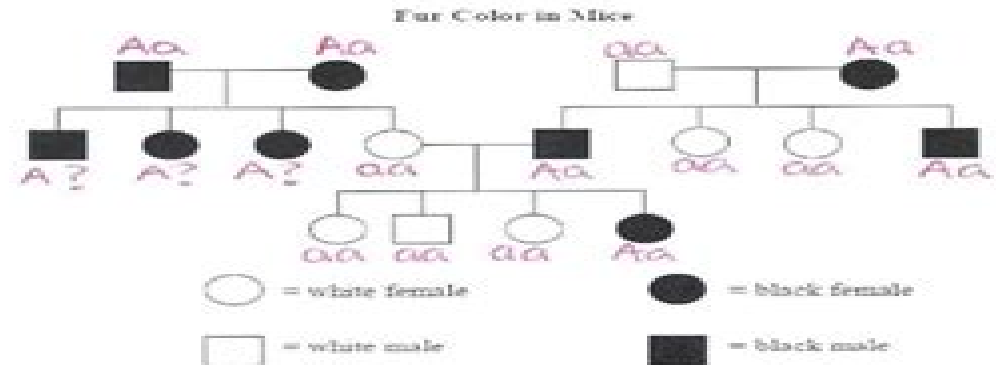
a. Which characteristic is dominant?

black

b. Which characteristic is recessive?

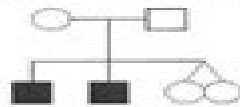
white

c. Determine the genotypes of all individuals. You will have three "A?". Write your Genotypes beneath each individual.



Identify the following pedigree charts as autosomal, X-linked, recessive, and dominant. Please explain your answer.

13. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.

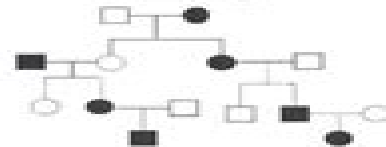


X-linked recessive

More males affected than females

Offspring show disorder/trait but parents don't

14. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.

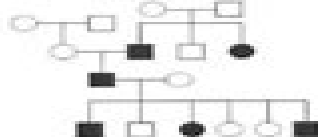


autosomal dominant

50% of males & 50% of females affected

Both parents & offspring show trait

15. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.



X-linked recessive

See reasons in question #13

16. If a child has an autosomal dominant trait, what can you say about the parents?

If the child has the disorder then one of the parents must have the disorder.

Biology Genetics Guide Answers

Siddappa N.Byrareddy



Biology Genetics Guide Answers:

A Guide to Genetic Counseling Wendy R. Uhlmann, Jane L. Schuette, Beverly M. Yashar, 2011-09-20 The first book devoted exclusively to the principles and practice of genetic counseling now in a new edition First published in 1998 A Guide to Genetic Counseling quickly became a bestselling and widely recognized text used nationally and internationally in genetic counseling training programs Now in its eagerly anticipated Second Edition it provides a thoroughly revised and comprehensive overview of genetic counseling focusing on the components theoretical framework and unique approach to patient care that are the basis of this profession The book defines the core competencies and covers the genetic counseling process from case initiation to completion in addition to addressing global professional issues with an emphasis on describing fundamental principles and practices Chapters are written by leaders in the field of genetic counseling and are organized to facilitate academic instruction and skill attainment They provide the most up to date coverage of The history and practice of genetic counseling Family history Interviewing Case preparation and management Psychosocial counseling Patient education Risk communication and decision making Medical genetics evaluation Understanding genetic testing Medical documentation Multicultural counseling Ethical and legal issues Student supervision Genetic counseling research Professional development Genetics education and outreach Evolving roles and expanding opportunities Case examples A Guide to Genetic Counseling Second Edition belongs on the syllabi of all medical and human genetics and genetic counseling training programs It is an indispensable reference for both students and healthcare professionals working with patients who have or are at risk for genetic conditions

Single Best Answers for Medical Students Stuart Kyle, 2024-02-12 Single Best Answers for Medical Students Easy to use SBA revision aid for medical students taking formative and summative examinations throughout medical school covering a broad range of topics Single Best Answers for Medical Students enables students to apply their knowledge to 500 commonly examined scientific questions from a range of topics including biochemistry cell and molecular biology genetics anatomy embryology and histology with detailed answers Chapters are organised into specific themes making it easy for readers to test their knowledge from various areas of the medical school curricula The questions include clinical images anatomical models and dissections and are written in a way that tests readers knowledge of basic sciences In Single Best Answers for Medical Students readers will find Chapters with 50 questions with some sub questions to provide broad topic coverage in a linear and logical fashion A comprehensive answer guide with key figures summarising important concepts to further deepen understanding Coverage of complex topics such as histology genetics pharmacology medical ethics and statistics Explanations as to why incorrect answers are incorrect Single Best Answers for Medical Students is an excellent detailed and easy to understand learning resource throughout medical school and beyond It aims to help lay the foundations of basic science so that medical students can apply this knowledge to future clinical scenarios

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understanding of plant biotechnology and genetics
Hutchins,2006-06-30

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