

HUMAN GENETICS PRACTICE WORKSHEET #3

1. Explain the difference between incomplete and codominance.

Incomplete dominance produces offspring with an intermediate trait (Red x white = pink). Codominance produces offspring with both traits (AA x BB = AB)

Codominance Problems

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 (black and white spotted).

a. What is the genotype for black chickens? BB

b. What is the genotype for white chickens? WW

c. What is the genotype for erminette chickens? BW

3. If two erminette chickens were crossed, what is the probability that:

a. They would have a black chick? 25%

b. They would have a white chick? 25%

Parents: BW x BW Show the Punnett Square:

	B	W
B	BB	BW
W	BW	WW

4. A black chicken and a white chicken are crossed. What is the probability that they will have erminette chicks? 100%

Parents: BB x WW Show the Punnett Square:

	B	B
W	BW	BW
W	BW	BW

5. Roan is a coat color found in many animals, including horses, cattle and dogs.

It is defined generally as an even mixture of white and red hair. What offspring are expected from mating a roan bull and a roan cow?

RR = red 25%
WW = white 25%
RW = roan 50%

6. What phenotypes would you expect from a cross between a red bull and a white cow?

	R	W
R	RR	RW
W	RW	WW

7. Two short-tailed (Manx) cats are bred together. They produce three kittens with long tails, five short tails, and two without any tails. From these results, how do you think tail length in these cats are inherited? Show the genotypes for both the parents and the offspring to support your answer.

Long tail = LL

no tail = NN

Short tail = LN
LN x LN
short x short

	L	N
L	LL	LN
N	LN	NN

Human Genetics Lab Answers

**National Academies of Sciences,
Engineering, and Medicine, Health and
Medicine Division, Board on Health
Sciences Policy, Committee on the
Return of Individual-Specific Research
Results Generated in Research
Laboratories**

Human Genetics Lab Answers:

The Handy Forensic Science Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2018-09-01 A practical accessible and informative guide to the science of criminal investigations Covering the fundamentals science history and analysis of clues The Handy Forensic Science Answer Book Reading Clues at the Crime Scene Crime Lab and in Court provides detailed information on crime scene investigations techniques laboratory finding the latest research and controversies It looks at the science of law enforcement how evidence is gathered processed analyzed and viewed in the courtroom and more From the cause manner time of a death and autopsies to blood toxicology DNA typing fingerprints ballistics tool marks tread impressions and trace evidence it takes the reader through the many sides of a death investigation Arson accidents computer crimes criminal profiling and much much more are also addressed The Handy Forensic Science Answer Book gives real world examples and looks at what Hollywood gets right and wrong It provides the history of the science and it introduces the scientists behind breakthroughs An easy to use and informative reference it brings the complexity of a criminal investigation into focus and provides well researched answers to over 950 common questions such as What is the difference between cause of death and manner of death How did a person's skull fit into criminal evidence in the early 1800s When were fingerprints first used to identify a criminal How is the approximate time of death of a crime scene victim determined What is forensic serology What is the National Missing and Unidentified Persons System Can a forensics expert look at skeletal remains and tell whether the person was obese How can a simple knot analyzed in the crime lab be used as evidence Can fingerprints be permanently changed or destroyed How fast does a bullet travel How was a chemical analysis of ink important in the conviction of Martha Stewart What types of data are often retrieved from a crime scene cellphone Can analyses similar to those used in forensics be used to uncover doping in athletics What is the Personality Assessment Inventory What are some motives that cause an arsonist to start a fire What state no longer allows bite marks as admissible evidence in a trial What is the Innocence Project Why are eyewitness accounts not always reliable Who was Jack the Ripper Providing the facts stats history and science The Handy Forensic Science Answer Book answers intriguing questions about criminal investigations This informative book also includes a helpful bibliography glossary of terms and an extensive index adding to its usefulness

Firepower in the Lab N. Patel, C. Kumar, Tony J. Beugelsdijk, Scott P. Layne, 2001-07-01 Today's world poses a triple threat to the American population infectious diseases contamination of food and water and bioattacks biowarfare or bioterrorism At least 17 countries are producing weapons of mass destruction using viruses bacteria or their toxins AIDS E coli contamination drug resistant tuberculosis and virulent flu strains are perhaps the best known of a host of disease threats What these dangers have in common is the amount of data required to achieve solutions in some cases as much as a petabit 1 followed by 15 zeros of data is required to study large numbers of samples from widespread locations *Firepower in the Lab* examines how the nation can combat this triple threat by improving our

ability to detect measure and monitor harmful biological agents It explores the potential of today s exciting new laboratory automation and computer technologies as well as the emerging tools of molecular biology how we can generate and analyze more data quickly and reduce human hands on involvement which inevitably introduces errors The book discusses how to improve and apply technologies such as robotics laboratory automation lab on a chip bioinformatics and Internet control innovations It reviews lessons learned from our experience with pandemic flu viruses It also presents strategies for developing new high throughput technologies including how to address the lack of public funding for critical research undertakings **Human Genetics** Ricki Lewis,2010 Explains what genes are how they function how they interact with the environment and how our understanding of genetics has changed since completion of the human genome project

Connecting with Our Ancestors: Human Evolution Museum Experiences Shelley L. Smith,2024-09-29 This book combines documentation and analysis of the contents of exhibits in 12 museums Part 1 with interviews with experts involved in the creation of exhibits Part 2 to explore variation in human evolution exhibits To be successful museum exhibits must make a personal connection with visitors inspiring them to learn more Human evolution exhibits thus need contemporary relevance It is crucial to find ways to bind our deep past to our lives today Presenting our story and our collective history some human evolution exhibits reach an audience of millions each year An understanding of evolution is fundamental to modern biology and a lack of knowledge of basic principles has practical consequences including impairing reception of health messages The goal of the volume is to stimulate discussion of how the presentation of evolution and in particular human evolution can be improved contributing to scientific literacy and engagement with evolutionary science To enhance relevance to a broader public the author argues that incorporation of evolutionary medicine and clearer explanations of ancestry and human biological variation are needed The surveyed museums include four in Texas the author s home state seven additional renowned U S museums and the Natural History Museum in London Some of the 35 interviewees are prominent academic researchers other contribute their expertise in design art and education Topics discussed include exhibit content and changing exhibits the ideal vs reality in exhibit creation self assessments of exhibits education and edutainment and exhibit content intersections with religion politics and the history of representations of race human biological variation A bibliographic essay appendices and text boxes provide additional information for readers desiring more in depth study This volume is of interest to a wide range of readers in anthropology museum studies and science communication **Returning**

Individual Research Results to Participants National Academies of Sciences, Engineering, and Medicine,Health and Medicine Division,Board on Health Sciences Policy,Committee on the Return of Individual-Specific Research Results Generated in Research Laboratories,2018-09-23 When is it appropriate to return individual research results to participants The immense interest in this question has been fostered by the growing movement toward greater transparency and participant engagement in the research enterprise Yet the risks of returning individual research results such as results with

unknown validity and the associated burdens on the research enterprise are competing considerations

Returning Individual Research Results to Participants reviews the current evidence on the benefits harms and costs of returning individual research results while also considering the ethical social operational and regulatory aspects of the practice This report includes 12 recommendations directed to various stakeholders investigators sponsors research institutions institutional review boards IRBs regulators and participants and are designed to help

- 1 support decision making regarding the return of results on a study by study basis
- 2 promote high quality individual research results
- 3 foster participant understanding of individual research results and
- 4 revise and harmonize current regulations

Biotechnology and Genetic Engineering

Facts On File, Incorporated, 2008 Provides an overview chronology of events glossary and annotated bibliography on biotechnology and genetic engineering

The Genealogical Science Nadia Abu El-Haj, 2012-04-26 This volume analyses the scientific work and social implications of the flourishing field of genetic history The author examines genetic history s working assumptions about culture and nature identity and biology and the individual and the collective

The Official Student Doctor Network Christian Becker, 2007 The Official Student Doctor Network Medical School Admission Guide will take you step by step through the entire process of getting into medical school It includes a detailed discussion and comparison of MD DO Caribbean and international medical schools as well as podiatry schools It will teach you how to stand out from the rest of the applicants Going beyond just medical school admissions the book provides a detailed look at the entire medical training process from pre med through medical school residency and fellowship training even different practice settings and medicine as a whole You will discover What all your medical school options are MD DO Caribbean international How to become a stronger applicant How to gain admission to medical school How to succeed in medical school Details about pre med medical school residency and beyond Tips and suggestions from successful medical school applicants Personal statement and interview advice Detailed scholarship and financial discussion including military and National Health Service Corps options

Finding Answers Southern Illinois University at Carbondale. College of Science, 1988

NIH Publications List National Institutes of Health (U.S.). Editorial Operations Branch, 1978

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Human Genetics Lab Answers Introduction

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