

Name \_\_\_\_\_

## Genetic Genealogy

*Directions: Today we will be learning about one of the newest techniques being used with crimes and DNA analysis, namely investigative genetic genealogy. You will be completing this activity to learn more about what this technique is and its application in the field of forensics.*

### What is Genetic Genealogy?

Use the reading to answer the questions below.

1. What is genetic genealogy?
2. How is investigative genetic genealogy used to help police solve crimes?
3. In order to build a family tree, what kind of public information could be searched to look for relatives? List at least 3 items.

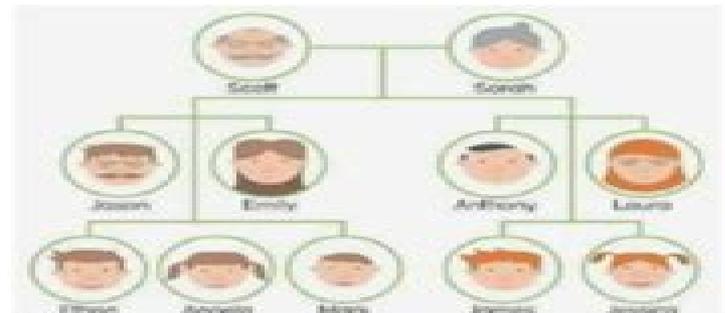
### Family Trees and Relationships

Use the reading and diagrams to answer the questions below.

4. Explain the relationship between:
  - a. first cousins
  - b. second cousins

Use the diagram below to answer questions 5 and 6. The diagram shows a family tree.

5. For the person named Mark, name the people who are his:
  - A. Sibling(s):
  - B. Parent(s):
  - C. Aunt(s)/Uncle(s):
  - D. Grandparent(s):
  - E. 1<sup>st</sup> cousin(s):
6. Name a person that Mark shares the following % of DNA with:  
(There may be more than one answer – you only need to list one person)
  - A. 50%:
  - B. 25%:
  - C. 12.5%:



### Scenario

Use the reading to answer the questions below.

7. Explain why the police had to use family DNA for the serial killer.

# Cengage Forensics Activity Answers

**Stanley E. Manahan**



## **Cengage Forensics Activity Answers:**

Science in Early Childhood Coral Campbell, Wendy Jobling, Christine Howitt, 2021-01-19 Science in Early Childhood is the essential science education resource for all pre service early childhood educators *Environmental Chemistry* Stanley E. Manahan, 2022-06-19 With clear explanations real world examples and updated ancillary material the 11th edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science technology and chemistry The format and organization popular in preceding editions is used including an approach based upon the five environmental spheres and the relationship of environmental chemistry to the key concepts of sustainability industrial ecology and green chemistry The new edition provides a comprehensive view of key environmental issues and significantly looks at diseases and pandemics as an environmental problem influenced by other environmental concerns like climate change Features The most trusted and best selling text for environmental chemistry has been fully updated and expanded once again The author has preserved the basic format with appropriate updates including a comprehensive overview of key environmental issues and concerns New to this important text is material on the threat of pathogens and disease deadly past pandemics that killed millions recently emerged diseases and the prospects for more environment threats related to disease This outstanding legacy appeals to a wide audience and can also be an ideal interdisciplinary book for graduate students with degrees in a variety of disciplines other than chemistry New Long awaited companion website featuring additional ancillary material Consultants & Consulting Organizations Directory Cengage Gale, 2009-05-12 **Government Research Directory** Cengage Gale, Gale Group, 2005 In this vital resource you ll find more than 6 800 research facilities and programs of the U S and Canadian federal governments Government Research Directory s U S listings are organized into 20 sections by cabinet department for the most part but also including legislative judicial and executive offices and independent agencies as well The remaining section deals with the government of Canada The sections are further divided by government agency Listings include e mail addresses information on patents available for licensing and expanded coverage of key personal contact It also includes a master index of names keywords and agencies a geographic index with telephone and fax numbers and a comprehensive subject index that includes more than 3 600 terms and cross references Forensic Science Virtual Lab Cengage Learning, Cengage Learning Staff, 2011-12-20 Virtual Lab Crime Scene 2 includes 8 labs focused on enabling students to apply more sophisticated tools such as Toxicology Death Autopsy Soil Examination Forensic Anthropology DNA Fingerprinting Tool Marks Casts and Impressions and Fire and Explosives This lab also includes activities and assessment for crime scene investigation evidence collection and crime scene investigation skills Each lab activity includes background information 3D crime scene clear instructions virtual forensic toolkit post lab assessment critical thinking questions and research activities Students will use the printed access code when registering for the first time Visit [www.cengage.com](http://www.cengage.com/community/forensicscience) community/forensicscience to learn more about the virtual lab program *Forensic Science Experiments* Pam Walker, Elaine

Wood,2010-05-12 Provides twenty experiments in forensic science that will intrigue both students and teachers and promote the interest in multiple science process skills **Forensic Science Virtual Lab Printed Access Card** Cengage Learning,2011-02-22 FORENSIC SCIENCE VIRTUAL LAB CRIME SCENE 1 will ignite student excitement with a new way to experience science The virtual labs provide students with realistic field experience within an online environment ideal for reinforcement or assessment opportunities The lab activities span the crime scene investigation workflow from start to finish allowing students to gain insight into what is like to be a real forensic scientist Virtual Labs give your students the opportunity to utilize resources and techniques that are unavailable in a school environment VIRTUAL LAB CRIME SCENE 1 includes ten forensic science lab activities within one crime scene Each lab activity includes background information 3D crime scene clear instructions toolkit student observation notebook and post lab assessment Assignments are automatically graded and entered into the instructor's online grade book Additional information about each activity includes time spent on task amount completed and access to the student observation notebook Set the scene for online learning success with the new VIRTUAL LABS and lead your students to the right conclusion **Forensic Science: Fundamentals & Investigations** Anthony J. Bertino,Patricia Bertino,2015-02-28 With today's popular television programs about criminal justice and crime scene investigation and the surge of detective movies and books students often have a passion for exploring forensic science Now you can guide that excitement into a profitable learning experience with the help of the innovative new FORENSIC SCIENCE FUNDAMENTALS AND INVESTIGATIONS 2E This dynamic visually powerful text has been carefully crafted to ensure solid scientific content and an approach that delivers precisely what you need for your high school course Now an established best seller FORENSIC SCIENCE FUNDAMENTALS AND INVESTIGATIONS 2E offers a truly experiential approach that engages students in active learning and emphasizes the application of integrated science in your course Student materials combine math chemistry biology physics and earth science with content aligned to the National Science Education Standards clearly identified by icons This book balances extensive scientific concepts with hands on classroom and lab activities readings intriguing case studies and chapter opening scenarios The book's exclusive Gale Forensic Science eCollection™ database provides instant access to hundreds of journals and Internet resources that spark the interest of today's high school students The new edition includes one new chapter on entomology and new capstone projects that integrate the concepts learned throughout the text Comprehensive time saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid integrated science education that keeps readers at all learning levels enthused about science FORENSIC SCIENCE FUNDAMENTALS AND INVESTIGATIONS 2E sets the standard in high school forensic science case closed Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Prentice Hall forensic science** Clarence Cocroft,2008 **Forensic Science Module 2** Responsive Education Solutions Staff,BrightThinker,2025-08 Forensic Science Module 8 Responsive

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