

Pedigree Practice #2 Worksheet

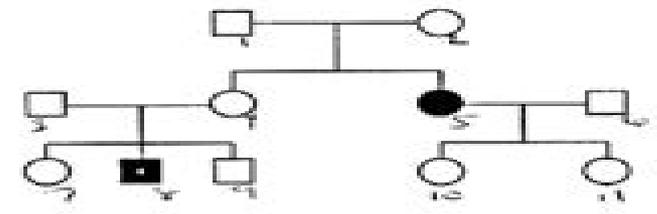
PROBLEM # 1: The pedigree below shows the recessive trait for nearsightedness in Jane's family. Jane, her parents, and her brother all have normal vision. Use *N* for the dominant allele and *n* for the recessive allele.

- How many generations are represented in this pedigree? 3
- How many children did the first couple (1 & 2) have? 3
- How many marriages are shown on this pedigree? 2
- What is the sex and genotype of individual # 2?
male - nn
- What are Jane's possible genotypes? could be NN or Nn
- What are the genotypes of individuals 5 & 6 with individual # 5 given first?
Nn x Nn
- What is the probability that individuals # 5 & 6 will have a child that is nearsighted?
25%



PROBLEM # 2: Phenylketonuria (PKU) is an inborn error of metabolism of the amino acid phenylalanine. The following pedigree shows a family affected by PKU (shaded in shapes). Use *P* for the dominant allele and *p* for the recessive allele.

- How is PKU inherited? Explain. Aut - rec
- Which individuals in this pedigree have PKU?
5 & 8
- What are the genotypes of individuals # 1 & 2?
Pp x Pp
- What are the genotypes of individuals # 3 & 4?
Pp x Pp



PROBLEM # 3: Earlobes in humans are either attached (shaded in shapes) or detached. Answer the following questions based on the pedigree below. Use *F* for the dominant allele and *f* for the recessive allele.

- Which trait is dominant, attached or detached earlobes?
free detached
- Is this trait sex-linked or non-sex-linked? Explain.
non - females / males affect equally
- What are the genotypes of individuals # 1 & 2?
Ff x Ff
- What is the genotype of individual # 4?
Ff
- What are the genotypes of individuals # 8 & 9?
Ff x Ff



Genetics And Pedigree Problems Answer Key

Daniel L. Hartl



Genetics And Pedigree Problems Answer Key:

Solutions Manual for An Introduction to Genetic Analysis David Scott, 2012 Since its inception *Introduction to Genetic Analysis IGA* has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com/IGA10epreview [Medical-Surgical Nursing - E-Book](#) Donna D. Ignatavicius, M. Linda Workman, 2013-12-27 Using a uniquely collaborative and reader friendly approach expert authors Donna D Ignatavicius and M Linda Workman cover all the latest trends evidence based treatment guidelines and additional updated information needed for safe clinical practice in medical surgical nursing This seventh edition features an expanded emphasis on patient safety and NCLEX Examination preparation new ties to the QSEN priorities for patient safety and a greater alignment with the language and focus of clinical practice A new chapter on evidence based practice and a wealth of effective online learning tools help solidify your mastery of medical surgical nursing UNIQUE Collaborative approach presents all medical surgical nursing and other interventions through the lens of the nursing process Reader friendly direct writing style makes this one of the most readable medical surgical nursing textbooks available UNIQUE Cutting edge focus on the latest trends in nursing practice and nursing education prepares you for both today and tomorrow s nursing practice UNIQUE Integrated tools for NCLEX preparation get you ready for your licensure examination Chapter opening Learning Outcomes are linked to Self Assessment Questions for the NCLEX Examination on the Evolve website Unique chapter ending Get Ready for the NCLEX Examination sections include Key Points organized by NCLEX Client Needs Categories UNIQUE Focus on nursing concepts helps bridge the gap between the concepts learned in *Nursing Fundamentals and disorders* content learned in the medical surgical nursing course UNIQUE Emphasis on clinical decision making teaches you to apply concepts to true to life clinical situations UNIQUE Concentration on the core body of knowledge for the RN level of medical surgical nursing practice focuses your attention on need to know content to pass the NCLEX Examination and practice safely as a beginning nurse Rich array of effective learning aids includes Best Practice for Patient Safety Quality Care Best Practice for Emergency Care Patient and Family Education Preparing for Self Management Nursing Focus on the Older Adult Home Care Assessment Focused Assessment Common Examples of Drug Therapy Evidence Based Practice Concept Maps Laboratory Profiles Assessment Using Gordon s Functional Health Patterns [Medical-surgical Nursing](#) Donna D. Ignatavicius, M. Linda Workman, 2013 Using a uniquely collaborative and reader friendly approach expert authors Donna D Ignatavicius and M Linda Workman cover all the latest trends evidence based treatment guidelines and additional updated information needed for safe clinical practice in medical surgical nursing This seventh edition features an expanded emphasis on patient safety and NCLEX Examination preparation new ties to the QSEN priorities for patient safety and a greater

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 Felissa R. Lashley, 2005-04-15 Designated a Doody's Core Title The third edition of this award winning text provides new and updated knowledge about genetics issues relevant to nursing practice Read in sequence or used as a reference this is a comprehensive overview of how genetics affects the care that nurses provide In addition to a summary of basic human genetics and discussion of the Human Genome Project this new edition includes the latest research findings and implications about inheritance major genetic disorders cytogenetics or chromosomal inherited biochemical and congenital anomalies and genetics in twin studies A consideration of the ethical impact of genetics on society and future generations as well as information on assisted reproduction round out the overview Includes over 100 illustrations and photos of specific genetic disorders tables and figures on the distribution of disease and an extensive appendix listing associations organizations and websites relevant to genetics

Genetics Benjamin A. Pierce, 2008 Third edition of Genetics A conceptual Approach includes thorough streamlining of the entire text to focus on core concepts

Handbook of Research on Science Teaching and Learning Dorothy Gabel, 1994 Sponsored by the National Science Teachers Association this handbook provides a uniquely comprehensive and current survey of the best research in science education compiled by the most renowned researchers More than summaries of findings the content provides an assessment of the significance of research evaluates new developments and examines current conflicts controversies and issues in the major science disciplines biology chemistry physics and earth science

Student Solutions Manual and Supplemental Problems to Accompany Genetics Daniel L. Hartl, Elizabeth W. Jones, 2004-09-07 This introductory college level textbook introduces the basic processes of gene transmission mutation expression and regulation Hartl Harvard U and Jones Carnegie Mellon U present an integrated view of the modern world of genetics treating classical molecular and population genetics as unified subdisciplines within the field Modern an

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short answer and conceptual problems The book also contains challenge problems and collaborative problems appropriate for groups Solutions many accompanied by detailed explanations of how the right answer was reached are included

Essential Genetics Daniel L. Hartl, Elizabeth W. Jones, 1999 Introduction to Genetic Analysis Anthony J.F. Griffiths, 2008 Provides an introduction to genetic analysis This book covers contemporary genetics and helps students understand the essentials of genetics featuring various experiments teaching them how to analyze data and how to draw their own conclusions Biology Cecie Starr, 1994 This streamlined book distills biology's key concepts and connects them to the lives of students with numerous timely applications including compelling new vignettes at the beginning of each chapter Once again Starr created new remarkably clear illustrations to help explain complex biological concepts As with every new edition she continues to simplify and enliven the writing without sacrificing accuracy The author has done a major revision of each chapter so that there is extensive updating and organizational changes to enhance the text's flow As the following features indicate the major thrust of the new edition is to enhance accessibility and further stimulate student interest Essentials of Genetics William S. Klug, Michael R. Cummings, Charlotte A. Spencer, 2007 Balancing classical and modern genetics Essentials of Genetics helps readers understand basic genetics concepts apply those concepts to genetics problems and recognize the logic behind them This succinct treatment features coverage of new research that will capture readers' interests Mendelian transmission genetics and modern molecular genetics with analytical reasoning woven into discussions plus references to classical experiments and recent applications Helps readers connect the science of genetics to the issues of today Modernizes treatment of timely topics including genomics bioinformatics proteomics chapter 18 applications and ethics of genetic engineering chapter 19 updated and extended coverage of gene regulation chapter 15 cancer genetics chapter 16 Features beautifully redesigned illustrations throughout helping readers understand concepts more clearly A useful reference for anyone interested in learning more about genetics Inquiry Into Life, Study Guide Sylvia S. Mader, 1982 Genetics Daniel L. Hartl, 1994 *Loose-leaf Version for Genetics Essentials* Benjamin A. Pierce, 2012-08-01 Genetics Essentials Concepts and Connections is the ideal brief text for helping students uncover the major concepts of genetics Developed from Benjamin Pierce's acclaimed Genetics A Conceptual Approach this essentials text covers basic transmission molecular and population genetics in 18 streamlined clearly illustrated chapters that emphasize the connections among key genetics ideas and the importance of developing solid problem solving skills **Progress in Forensic Genetics** International Society for Forensic Haemogenetics. Congress, 1999

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$$\text{Cu} + 2\text{AgNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + 2\text{Ag}$$

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$$3\text{CO} + 7\text{H}_2 \rightarrow \text{C}_3\text{H}_8 + 3\text{H}_2\text{O}$$

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web start with 8 3 mole H_2S and multiply it with 2 mole H_2O over 2 mole H_2S from the equation
$$8 3 \text{ mole } \text{H}_2\text{S} \times \frac{2 \text{ mole } \text{H}_2\text{O}}{2 \text{ mole } \text{H}_2\text{S}} = 8 3 \text{ mole } \text{H}_2\text{O}$$

149 4g H_2O is your theoretical yield so percent yield
$$\frac{137 1\text{g } \text{H}_2\text{O}}{149 4\text{g } \text{H}_2\text{O}} \times 100 = 91 77\%$$

problems 6 8 are similar to problem 5

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web 1 csun edu hcchm001 introchemhandouts html limiting reagents theoretical actual and percent yields example of a limiting reagent problem how many grams of NH_3 can be produced theoretically from the reaction of 5 0 g of N_2 what is the limiting reagent if 8 52 g are actually formed what is the

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$$\text{C}_3\text{H}_6 + 3\text{O}_2 \rightarrow 3\text{CO} + 3\text{H}_2\text{O}$$

if the reaction of 21 3 grams of O_2 produces a 47 3 yield how many grams of CO would be produced step one figure out how many moles of the limiting reagent you have
$$\frac{21 3 \text{ grams } \text{O}_2}{32 \text{ g/mole}} = 0 66 \text{ moles } \text{O}_2$$

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web percent yield is a measure of the efficiency of the experimental design yield efficiency mass of product obtained
$$\frac{\text{calculated mass of the product}}{\text{mass of the product expected}} \times 100$$

in this reaction a yield 80 is anticipated

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web a write a balanced equation for the reaction
$$\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$$

4 al 3 o2 2 al2o3 b determine the theoretical yield of Al_2O_3 160 0

g al x 1 mol al x 2 mol al₂O₃ x 101 964 g al₂O₃ 302 3 g al₂O₃ 26 982 g al 4 mol al 1 mol al₂O₃ c determine the percent yield
yield actual x 100 260 0 g x 100 86 01 theoretical 302 3 g

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web 7 na 2 c 2 o 4 is the limiting reactant percent yield 86 6 8 only four molecules can be made 9 this amount cannot be
weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12
c is the limiting reagent 4 33 g of h 2 are left over 13

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from a set of reactants calculate how much product will be produced from the limiting reagent calculate how much reactant s
remains when the reaction is complete

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web the percent yield is calculated as follows text percent yield $\frac{\text{text actual yield}}{\text{text theoretical yield}} \times 100$ percent
yield theoretical yield actual yield 100 based on this definition we would expect a percent yield

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how much product will be produced from the limiting reactant calculate how much reactant s remains when the reaction is
complete

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ch₃oh can be produced by the following reaction 2h₂ co ch₃oh calculate the theoretical yield of ch₃oh if 68 5 g of co is
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which reactant is limiting assuming we started with 30 0 grams of ammonium nitrate and 50 0 grams of sodium phosphate
what is the

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