

Human Inheritance Patterns

Objectives

- Explain the role of sex chromosomes in sex determination
- Describe how sex linkage affects the inheritance of traits
- Explain the inheritance of ABO blood groups
- Show how pedigree analysis can be used to illustrate the inheritance of traits

Sex Determination

- In mammals and most insects:
 - _____
 - _____
- Gametes produced by males can be X or Y, while gametes produced by females are always X

Sex Linkage

- _____
- Genes found on the X chromosome are called X-linked genes
- Genes found on the Y chromosome are called Y-linked chromosomes

Pedigree Analysis

- _____
- _____
- Squares represent males
- Circles represent females
- _____
- _____
- _____

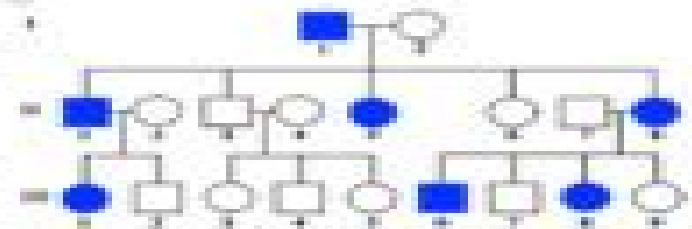
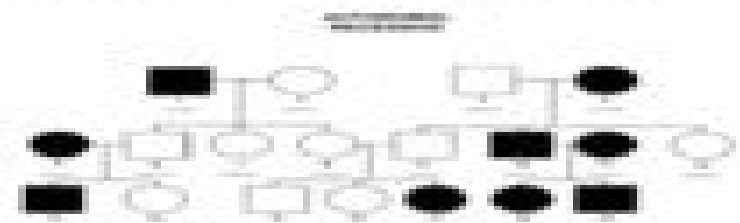


Figure 1: Pedigree chart showing a family with a trait that is inherited as an autosomal recessive trait.

Autosomal Recessive Pedigree

- This pedigree shows a trait that is inherited as an autosomal recessive trait:
- _____
- A person can:
 - _____
 - _____
 - _____



Human Inheritance Guided And Study Answers

PT Brinkman



Human Inheritance Guided And Study Answers:

Reviewing **Human Inheritance Guided And Study Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Human Inheritance Guided And Study Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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 $\max z = 3x_1 + 5x_2 + 2x_3 + 4x_4$
 $\text{subject to } x_1 + 2x_2 + 3x_3 + 4x_4 = 3$
 $2x_1 + x_2 + x_3 + 2x_4 = 4$
 $x_1, x_2, x_3, x_4 \geq 0$
 The initial tableau is
 $\min z = 3s_1 + 5s_2$

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 $\text{subject to } x_1 + 2x_2 \leq 12$
 $2x_1 + 3x_2 \leq 18$
 $x_1, x_2 \geq 0$

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