

Genetics Practice Problems (Remote Edition)



1. For each genotype below, indicate whether it is heterozygous (**He**) or homozygous (**Ho**)

AA

Ee

Bb

ff

Pp

gg

Dd

HH

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

Purple flowers are dominant to white

PP

Pp

pp

Brown eyes are dominant to blue

BB

Bb

bb

3. For each **phenotype** below, list the **genotypes** (remember to use the letter of the dominant trait)

Straight hair is dominant to curly

straight

Tail spikes are dominant to plain tails

spikes

Genetics Problems Packet Answers

Jin-Ying Zhang



Genetics Problems Packet Answers:

Study Guide to Accompany Principles of Genetics, 3rd Edition D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09 High quality illustrations with stepped out art to help readers visualize complex processes Human genetics and the role of the geneticist highlighted throughout Two new features in each chapter introductory Key Questions and closing Basic Exercises

Resources in Education, 1999-04 Principles of Genetics D. Peter Snustad, Michael J. Simmons, 2000 The cover shows many facets of genetics Top row Left The DNA double helix here imaged in a scanning tunneling micrograph is central to all genetics research Right Experimentation has shown that some social behaviors such as nest cleaning by honeybees is under genetic control Second row Left Inherited disorders such as albinism manifested here in a bullfrog have provided many insights about the genetic control of metabolism Right Gregor Mendel's 19th century work with pea plants elucidated the basic principles of inheritance Third row Left Efforts to combat HIV the virus that causes AIDS depend on knowing how the virus expresses its genes inside the cells of the immune system Right The fruit fly is ideally suited for studies on the genetic control of embryonic development and organ formation Fourth row Left The identification of mutations that cause unregulated cell division facilitates the diagnosis treatment and prevention of breast cancer Right HeLa cells derived in 1951 from Henrietta Lacks a woman who died of cervical cancer thrive in the laboratory and are used in research worldwide Bottom row The replication of chromosomes left is a prerequisite for cell division right

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