

Unit 12 – Mendelian Genetics
Review Packet – Practice Problems

One Factor Problems:

1. The ability to taste the chemical PTC is determined by a single gene in humans. The ability to taste the gene is dominant and the inability to taste the chemical is recessive. Suppose two hybrid tasters have a large family.
- Predict the proportion of their children who will be tasters and non-tasters. Use the Punnett square below to make your prediction.

	T	t
T	TT	Tt
t	Tt	tt

75% Tasters
25% Non- tasters

- What is the likelihood that their first child will be a taster?
3/4 or 75%
 - What is the likelihood that their fourth child will be a taster?
3/4 or 75%
2. In a certain plant species, blue flower color is dominant to white. You have a blue flowered plant and a white flowered plant.
- What do you know about the genotype of each plant in the P Generation?
Blue = BB or Bb **White= bb**
 - Now you cross these plants and ALL the F1 offspring are blue. What have you learned about the genotypes of the parents?
Must be BB
 - Cross two plants from the F1 generation. Use the Punnett Square below and predict what percentage of the offspring will be white and what percentage will be blue.

	B	b
B	BB	Bb
b	Bb	bb

75% Blue

Human Inheritance Packet Answers

PT Brinkman

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the PT Brinkman text.

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Table of Contents Human Inheritance Packet Answers

1. Understanding the eBook Human Inheritance Packet Answers
 - The Rise of Digital Reading Human Inheritance Packet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Inheritance Packet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Inheritance Packet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Inheritance Packet Answers
 - Personalized Recommendations
 - Human Inheritance Packet Answers User Reviews and Ratings
 - Human Inheritance Packet Answers and Bestseller Lists

5. Accessing Human Inheritance Packet Answers Free and Paid eBooks
 - Human Inheritance Packet Answers Public Domain eBooks
 - Human Inheritance Packet Answers eBook Subscription Services
 - Human Inheritance Packet Answers Budget-Friendly Options
6. Navigating Human Inheritance Packet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Human Inheritance Packet Answers Compatibility with Devices
 - Human Inheritance Packet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Inheritance Packet Answers
 - Highlighting and Note-Taking Human Inheritance Packet Answers
 - Interactive Elements Human Inheritance Packet Answers
8. Staying Engaged with Human Inheritance Packet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Inheritance Packet Answers
9. Balancing eBooks and Physical Books Human Inheritance Packet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Inheritance Packet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Human Inheritance Packet Answers
 - Setting Reading Goals Human Inheritance Packet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Human Inheritance Packet Answers
 - Fact-Checking eBook Content of Human Inheritance Packet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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