

HUMAN GENETICS PRACTICE WORKSHEET #3

1. Explain the difference between incomplete and codominance.

Incomplete dominance produces offspring with an intermediate trait (Red x white = pink). Codominance produces offspring with both traits (AA x BB = AB)

Codominance Problems

2. In some chickens, the gene for feather color is controlled by codominance. The allele for black is B and the allele for white is W. The heterozygous phenotype is known as erminette (black and white spotted).

a. What is the genotype for black chickens? BB

b. What is the genotype for white chickens? WW

c. What is the genotype for erminette chickens? BW

3. If two erminette chickens were crossed, what is the probability that:

a. They would have a black chick? 25%

b. They would have a white chick? 25%

Parents: BW x BW Show the Punnett Square:

	B	W
B	BB	BW
W	BW	WW

4. A black chicken and a white chicken are crossed. What is the probability that they will have erminette chicks? 100%

Parents: BB x WW Show the Punnett Square:

	B	B
W	BW	BW
W	BW	BW

5. Roan is a coat color found in many animals, including horses, cattle and dogs.

It is defined generally as an even mixture of white and red hair. What offspring are expected from mating a roan bull and a roan cow?

RR = red 25%
WW = white 25%
RW = roan 50%

6. What phenotypes would you expect from a cross between a red bull and a white cow?

	R	W
R	RR	RW
W	RW	WW

7. Two short-tailed (Manx) cats are bred together. They produce three kittens with long tails, five short tails, and two without any tails. From these results, how do you think tail length in these cats are inherited? Show the genotypes for both the parents and the offspring to support your answer.

Long tail = LL

no tail = NN

Short tail = LN

LN x LN
short x short

	L	N
L	LL	LN
N	LN	NN

Human Genetics Lab Answers

J Rink



Human Genetics Lab Answers:

The Enigmatic Realm of **Human Genetics Lab Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Human Genetics Lab Answers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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