## CHAPTER 26 TUDY GUIDE Date Class Name EXPECTED AND OBSERVED RESULTS 7. In corn plants, normal height H is dominant to short height h. Complete these four Punnett squares showing different crosses. Then, shade red all the pure dominant offspring. Shade green all the heterozygous offspring. Leave all the pure recessive offspring unshaded. Н h 8. In flies, long wings L are dominant to short wings l. Complete these four Punnett squares showing different crosses. Then, shade red all the offspring that will have long wings. Leave all the shortwinged offspring unshaded. 9. In guinea pigs, short hair S is dominant to long hair s. Complete the following Punnett squares according to the directions given. Then, fill in the blanks beside each Punnett square with the correct numbers. a. One guinea pig is Ss and one is ss. Offspring expected (number) Short hair Long hair

Offspring expected (number)

Short hair

Long hair

b. Both guinea pigs are heterozygous for short hair.

APPLICATION: CONS	SUMER	CHAPTER 26
Vame	Date _	Class
GENE	ETICS PROBLEMS IN AGRIC	Use after Section 26:2. CULTURE
Fill in the Punnett squares to sol	ve each of the following problems	s and answer the questions.
<ol> <li>Imagine that you raise guinea guinea pigs, black coat color, i</li> </ol>	a pigs to sell and that brown guings, is dominant to brown coat col	
brown guinea pigs?	·	
(a) Black male ${m B}{m b}  imes$ brown female ${m b}{m b}$	(b) Black male $Bb \times b$ black female $BB$	(c) Brown male $bb \times black$ female $BB$
Offspring will be: (%)	Offspring will be: (%)	Offspring will be: (٩٥)
Genotype		
Phenotype	_Phenotype	Genotype Phenotype
provide pure red, <i>RR</i> , and pur heterozygous, <i>Rr</i> , seeds. How	omatoes. He has signed a contra- re yellow, <i>rr</i> , seeds. The seed cor could the farmer tell if his red to	ct with a large seed company to npany does not want any omatoes are pure or heterozygous?
Offspring w	rill be:(り。) (b)	Offspring will be: (%) Gevolpe
Phenotype		Phenatros.