

Name:

Date:

Block

Monohybrid Cross Worksheet

#1) Using the Punnett square to the right, complete the following questions about eye color, Brown (B) is dominant over blue (b).

1. What gene is being expressed?
2. What is the genotypic ratio
3. What is the phenotypic ratio?
4. What is the male's eye color?

		Male	
		B	B
Female	B	BB	BB
	b	Bb	Bb

#2) Gene: Height

Alleles: Tall (T)

Short (t)

Mom: Homozygous recessive

Dad: Heterozygous

1. Complete the Punnett square to the right
2. Which is the dominant allele?
3. What are the genotypic ratios/percentages
4. What are the phenotypic ratios/percentages
5. Do the mother's traits say she is tall or short? Explain
6. Compare and Contrast homozygous and heterozygous.

#3) Gene: Hair Color in dogs

Alleles: Blonde hair (B)

Brunette hair (b)

Mom: Heterozygous

Dad: Heterozygous

1. Complete the Punnett square to the right
2. What is the genotypic ratio?
3. What is the phenotypic ratio/percentage?
4. If the parents had 4 puppies, what are the chances for a pure homozygous dominant puppy?