

Student Name: _____ Student ID: _____ Teacher Name: _____

Genetics Terminology Homework 1: Now let's put all of our new terms to good use.

Some parrots have gray feathers, and some have green feathers. Gray feathers are dominant and green feathers are recessive. Use this information for questions 1 – 5.

1. In parrots the allele for gray feathers is G. Is this allele dominant or recessive?

Dominant

2. In parrots the allele for green feathers is g. Is this allele dominant or recessive?

Recessive

3. Kelli has a gray parrot. Circle the correct possible genotypes for her parrot. GG Gg gg

4. Kelli's friend Hector has a green parrot. Circle the correct possible genotypes for his parrot: GG Gg gg

5. A parrot has one dominant allele and one recessive allele, what is it called?

Homozygous dominant

Heterozygous

Homozygous recessive

Short fur is dominant (F) in cats. Long fur (f) is recessive in cats. Use this information to answer questions 6 – 10.

6. A kitten has a genotype of Ff, what is its phenotype? Short

7. A male cat is homozygous dominant. What are his phenotype and his genotype?

Short Fur

FF

8. A kitten is homozygous recessive for the length of its fur. What is the correct pair of letters for its genotype?

ff

9. A cat has short fur. What are its *possible* genotypes (hint: there is more than one)?

FF and Ff are both possible

10. A cat has two recessive alleles, what is it called?

Homozygous dominant

Heterozygous

Homozygous recessive