

NAME: _____

Patterns of Heredity Quiz

1. For each genotype, indicate whether it is heterozygous or Homozygous.

Gg _____ BB _____ Tt _____ ff _____

a) Which of the genotypes is considered hybrids? _____

b) Which of the genotypes is considered purebred? _____

2. Determine the phenotype for each genotype.

a) Freckles are dominant to no freckles

ff _____ Ff _____ FF _____

3. For each phenotype, give the genotypes that are possible.

a) Straight hairline (H) is dominant to widows peak (h).

Widow's peak: _____ Straight hairline: _____

4. Mr and Mrs Bunny decided to have children. Mr and Mrs Bunny are both heterozygous for brown eyes. On a separate sheet of paper create a punnett square to show what would possibly result if they had children.

Based on your punnett square answer the following:

a) What are the genotypes of the parents? _____

b) Give the genotypes for the offspring. _____

c) What is the chance of a blue-eyed child? _____

d) What is the change of a brown-eyed child? _____

5. Gregor Mendel was a: _____

6. RC Punnett developed the: _____

7. Mendel during his experiment used: _____

8. The law of independent assortment was written by: _____

9. DNA is stored in the nucleus of each cell: _____

10. Chromosomes are: _____

