

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: _____

