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Name _____ Class _____ Date _____

Chapter 16 Evolution of Populations

Section 16-1 Genes and Variation (pages 393-396)

Key Concepts

- What are the main sources of heritable variation in a population?
- How is evolution defined in genetic terms?
- What determines the numbers of phenotypes for a given trait?

Introduction (page 393)

1. Is the following sentence true or false? Mendel's work on inheritance was published after Darwin's lifetime. _____
2. Which two important factors was Darwin unable to explain without an understanding of heredity? _____

How Common Is Genetic Variation? (page 393)

3. All organisms have additional _____ that is "invisible" because it involves small differences in biochemical processes.

Variation and Gene Pools (page 394)

4. A group of individuals of the same species that interbreed is a(n) _____.
5. All of the genes in a population are called a(n) _____.
6. Is the following sentence true or false? A gene pool typically contains just one allele for each inheritable trait. _____
7. The number of times that an allele occurs in a gene pool compared with the number of times other alleles for the same gene occur is called the _____ of the allele.

Sources of Genetic Variation (pages 394-395)

8. What is a mutation? _____
9. Why do mutations occur? _____

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Chapter 16 1 Evolution Of Populations Answers