#### 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)

- 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)

 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(an) \_\_\_\_\_\_.
- 5. All of the genes in a population are called a(an) \_\_\_\_\_\_\_
- Is the following sentence true or false? A gene pool typically contains just one allele for each inheritable trait.

## Sources of Genetic Variation (pages 394-395)

- 8. What is a mutation? \_\_\_\_\_
- 9. Why do mutations occur?

# **Section 16 1 Genes And Variation Answers**

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