

## 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(an) \_\_\_\_\_.
5. All of the genes in a population are called a(an) \_\_\_\_\_.
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? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Section 16 1 Genes And Variation Sheet Answers

**Camilla Rothe**



## Section 16 1 Genes And Variation Sheet Answers:

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web feb 11 2017 chapter 24 critical care calculations objectives after reviewing this chapter you should be able to 1 calculate dosages in mcg min mcg hr and mg min 2 calculate dosages in mg kg hr mg kg min and mcg kg min the content in this chapter may not be required as part of the nursing curriculum

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web ordered amount of drug x pt s weight x 60 minutes hr drug concentration 6 rate x 65 pt weight x 60 minutes hr 23400 14 6 round to 15 set rate at 15 ml hour