

## Section 16–2 Evolution as Genetic Change (pages 397–402)

### Key Concepts

- How does natural selection affect single-gene and polygenic traits?
- What is genetic drift?
- What is the Hardy–Weinberg principle?

### Natural Selection on Single-Gene Traits (pages 397–398)

1. Is the following sentence true or false? Natural selection on single-gene traits cannot lead to changes in allele frequencies. \_\_\_\_\_
2. If a trait made an organism less likely to survive and reproduce, what would happen to the allele for that trait? \_\_\_\_\_  
\_\_\_\_\_
3. If a trait had no effect on an organism's fitness, what would happen to the allele for that trait? \_\_\_\_\_  
\_\_\_\_\_

### Natural Selection on Polygenic Traits (pages 398–399)

4. List the three ways that natural selection can affect the distributions of phenotypes.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_

Match the type of selection with the situation in which it occurs.

Type of Selection	Situation
_____ 5. Directional	a. Individuals at the upper and lower ends of the curve have higher fitness than individuals near the middle.
_____ 6. Stabilizing	b. Individuals at one end of the curve have higher fitness than individuals in the middle or at the other end.
_____ 7. Disruptive	c. Individuals near the center of the curve have higher fitness than individuals at either end.

8. An increase in the average size of beaks in Galápagos finches is an example of \_\_\_\_\_ selection.
9. Is the following sentence true or false? The weight of human infants at birth is under the influence of disruptive selection. \_\_\_\_\_

## Section 16 2 Evolution As Genetic Change Answers

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