

**Chapter 10****Cell Growth and Division****Section 10–1 Cell Growth** (pages 241–243)

*This section explains what problems growth causes for cells.*

**Limits to Cell Growth** (pages 241–243)

1. What are two reasons why cells divide rather than continue to grow indefinitely?
  - a. The larger a cell becomes, the more demands the cell places on its DNA.
  - b. The larger a cell becomes, the more trouble the cell has moving nutrients and wastes across the cell membrane.
2. Is the following sentence true or false? As a cell increases in size, it usually makes extra copies of its DNA. false
3. Circle the letter of what determines the rate at which food and oxygen in a cell are used up and waste products produced.
  - a. The cell's organelles
  - ☒ b. The cell's volume
  - c. The cell's location
  - d. The cell's DNA
4. How can you obtain a cell's ratio of surface area to volume? Divide the surface area by the volume.
5. If a cell's surface area is  $6\text{ cm}^2$  and its volume is  $1\text{ cm}^3$ , then what is its ratio of surface area to volume?  $6 / 1$  or  $6 : 1$
6. Is the following sentence true or false? As a cell grows in size, its volume increases much more rapidly than its surface area.  
true
7. Circle the letter of what happens to a cell's ratio of surface area to volume as the cell's volume increases more rapidly than its surface area.
  - ☒ a. The ratio decreases.
  - b. The ratio increases.
  - c. The ratio remains the same.
  - d. The ratio disappears.
8. What is cell division? Cell division is the process by which a cell divides into two new daughter cells.
9. How does cell division solve the problem of increasing size? Cell division reduces cell volume.

# Holt Cell Growth And Divison Answer Key

**LL Leslie**



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