

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 cm^2 and its volume is 1 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.

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