

Name _____ Class _____ Date _____

Chapter 10 Cell Growth and Division

Section 10-1 Cell Growth (pages 241–243)



Key Concept

- What problems does growth cause for cells?

Limits to Cell Growth (pages 241–243)

- What are two reasons why cells divide rather than continue to grow indefinitely?
 - The larger a cell becomes, the more demands the cell places on its DNA.
 - The larger a cell becomes, the more trouble the cell has moving nutrients and wastes across the cell membrane.
- Is the following sentence true or false? As a cell increases in size, it usually makes extra copies of its DNA. false
- Circle the letter of what determines the rate at which food and oxygen in a cell are used up and waste products produced.
 - The cell's organelles
 - The cell's volume
 - The cell's location
 - The cell's DNA
- How can you obtain a cell's ratio of surface area to volume? Divide the surface area by the volume.
- 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 $6 : 1$
- Is the following sentence true or false? As a cell grows in size, its volume increases much more rapidly than its surface area. true
- 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.
 - The ratio decreases.
 - The ratio increases.
 - The ratio remains the same.
 - The ratio disappears.

Division of the Cell (page 243)

- What is cell division? Cell division is the process by which a cell divides into two new daughter cells.
- How does cell division solve the problem of increasing size? Cell division reduces cell volume.

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Lei Huang



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