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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)

- 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.
- 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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G1 phase (gap 1 phase) is the first gap, or growth phase in the cell cycle. For cells that will divide again, G1 is followed by replication of the DNA, during the S phase. The S phase (synthesis phase) is period during which a cell replicates its DNA. Figure 1.

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Biology: Chapter 10: Cell Growth and Division. Tools. Copy this to my account; E-mail to a friend; Find other activities; Start over; Help; A B; larger the cell becomes the more demands the cell places on its DNA, Cell has a harder time moving enough nutrients : Limits to Cell Growth: Process by which a cell divides into two new daughter cells: Cell Division: Mitosis - division of the cell ...

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The cell cycle is a regular pattern of growth, DNA duplication*, and cell division* that occurs in eukaryotic cells. Recall that your cells are eukaryotic cells, and they have a nucleus. There are four main stages of the cell cycle: • gap 1—normal growth • synthesis—DNA is copied • gap 2—more growth • mitosis—nuclear division

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chapter 5 cell growth and division rates of cell division vary widely cell divides according to the bodys need ex skin cells divide more often then liver cells the length of gap 1 varies widely among cell types neurons enter a stage called g0 where cells are unlikely to divide again after the synthesis phase the cell proceeds through the g 2 phase the g 2 phase is a second gap phase during ...

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Chapter 10 Cell Growth and Division The larger a cell becomes, the more demands the cell places on its DNA—the molecule that contains information that controls cell functions. As a cell increases in size, it usu- ally does not make copies of DNA. If a cell were to grow without limit, an “information crisis” would occur.

Chapter 10 Cell Growth and Division Summary

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The number of divisions in one 24-hour cycle is highly dependent on growth conditions. In bright light at 25°C, log-phase cells typically divide three times to produce eight daughters, but at lower temperatures or lower light intensity, two divisions are more usual (see Chapter 8).

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series of events in which a cell grows, prepares for division, and divides to form two daughter cells Interphase peroid of the cell cycle between cell divisions in which the cell grows

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