

10.1 Cell Growth, Division, and Reproduction: Limits to Cell Size

For Questions 1–4, write *True* if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. As a cell's size increases, its amount of DNA also increases.
- _____ 2. The amount of activity in a cell is related to its volume.
- _____ 3. The smaller the cell, the smaller its ratio of surface area to volume.
- _____ 4. The information crisis in a cell is solved by the replication of the DNA before cell division.

5. **VISUAL ANALOGY** In the visual analogy of the growing town, what does the library represent? Identify two characteristics that make it a good choice for this analogy.



Cell Division and Reproduction

For Questions 6–8, complete each statement by writing the correct word or words.

6. _____ is the formation of new individuals.
7. For single-celled organisms, cell division is a form of _____ reproduction.
8. Most multicellular organisms reproduce by _____ reproduction.
9. Use the table to compare and contrast asexual and sexual reproduction.

Asexual and Sexual Reproduction	
Similarities	Differences

Cell Growth And Division Guide Answers

Robert William Hegner



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