Name_____ Class _____ Date _____

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 <u>also increases</u>.

_____ **2.** The amount of activity in a cell is related to its <u>volume</u>.

_____ **3.** The smaller the cell, the <u>smaller</u> its ratio of surface area to volume.

_____ **4.** The <u>information crisis</u> 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.

_____

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_____

_____

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**

Apply the Big idea

10. Vascular tissue helps plants transport water against the force of gravity. Because of this, plants that lack vascular tissue do not grow very tall. How is this situation similar to the information you have learned in this lesson? Explain.