

READING GUIDE: Chapter 10.1 (pages 274-278)

Limits to Cell Size

1. What are the 2 reasons that a cell will divide instead of growing?
 - a. _____
 - b. _____
2. Identify 3 items to enter or exit a cell.

3. True or False. (Circle one). As the length of the sides of a cube increases, the volume increases more than the surface area.
4. How does the surface area change when a large cell divides into smaller cells that that the same total volume?
5. The textbook uses the size of a town as an analogy. Describe how a town can be used for this analogy in relation to information overload and traffic problems.
6. How does DNA replication solve the problem of information overload? _____

7. What is cell division's role in the cell volume? _____

Cell Division and Reproduction

8. What is asexual reproduction? _____
Give example of an organism that asexually reproduces: _____
9. Define **SEXUAL REPRODUCTION**: _____
10. Compare the advantages and disadvantages of sexual and asexual reproduction.

	Asexual Reproduction	Sexual Reproduction
Advantage		
Disadvantage		