

7- 2 Eukaryotic Cell Structure..... NAME \_\_\_\_\_

1. In some respects, the \_\_\_\_\_ is like a factory.
2. These structures are known as "little organs." \_\_\_\_\_.
3. Cell biologists divide the eukaryotic cell into two major parts the \_\_\_\_\_ and the \_\_\_\_\_.
4. See Figure 7-7. What part of the nucleus (with pointer) contains a small, dense region?  
\_\_\_\_\_
5. The nucleus is surrounded by a \_\_\_\_\_ composed of two membranes.
6. When a cell divides, however; \_\_\_\_\_ condenses to form \_\_\_\_\_.
7. \_\_\_\_\_ are small particles of RNA and protein found throughout the cytoplasm.
8. The portion of the \_\_\_\_\_ involved in the synthesis of proteins is called \_\_\_\_\_  
\_\_\_\_\_ or \_\_\_\_\_.
9. See Figure 7-9. What does the Golgi apparatus do to proteins?  
\_\_\_\_\_
10. The Golgi apparatus is somewhat like a \_\_\_\_\_, where the finishing touches are put on proteins before they are ready to leave the "factory."
11. One function of \_\_\_\_\_ is the digestion, or breakdown, of lipids, carbohydrates, and proteins into \_\_\_\_\_ that can be used by the rest of the cell.
12. What kind of vacuole does the paramecium in Figure 7-10 contain? \_\_\_\_\_
13. Most cells get energy in one of two ways ---- from \_\_\_\_\_ or from the \_\_\_\_\_.
14. \_\_\_\_\_ are organelles that convert the chemical energy stored in food into compounds that are more convenient for the cell to use.
15. \_\_\_\_\_ are the biological equivalents of solar power plants.
16. Unlike other organelles that contain no DNA, \_\_\_\_\_ and \_\_\_\_\_ contain their own genetic information in the form of small DNA molecules.