Why Are Eukaryotic Cells So Complex?

1. Regarding the size and basic structure of eukaryote cells, be able to do the following:

   Compare the relative size of prokaryote, animal and plant cells.

   Explain why increased size is associated with greater internal complexity in the eukaryotes.

   Give one example of a cell in which very large size is not accompanied by greater complexity.

   Give one example of a prokaryotic cell that has increased internal complexity.

2. List 10 organelles (or membranes) found within animal cells and indicate the general function of each.