Reviewing Key Concepts

Matching *On the line provided, write the letter of the kingdom that best matches each description.*

E 1. heterotrophs whose cell walls contain chitin
A 2. prokaryotes whose cell walls contain peptidoglycan
D 3. multicellular autotrophs whose cell walls contain cellulose
B 4. prokaryotes whose cell walls lack peptidoglycan
F 5. multicellular eukaryotes without cell walls or chloroplasts
C 6. unicellular, colonial, or multicellular eukaryotes that show a variety of characteristics

a. Eubacteria
b. Archaebacteria
c. Protista
d. Plantae
e. Fungi
f. Animalia

Short Answer *On the lines provided, answer the following questions.*

7. In the discipline of taxonomy, what is a domain?
largest and most inclusive taxanomic category

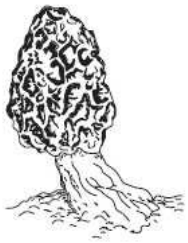
8. What are the three domains into which organisms can be grouped?
Archae, Bacteria and Eukarya

9. What characteristic is shared by all members of the domain Eukarya?
All are eukaryotes - have a nucleus

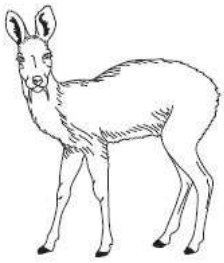
10. What must you find out about a prokaryote to know which domain it belongs to?
Whether or not its cells contain peptidoglycan

Classifying *On the line provided, label each organism with the kingdom and domain to which it belongs.*

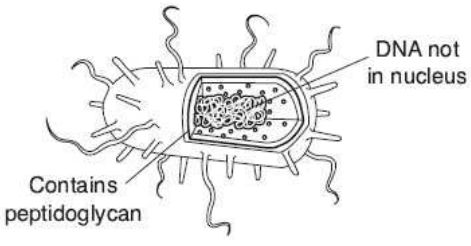
11. Eukarya, Plantae



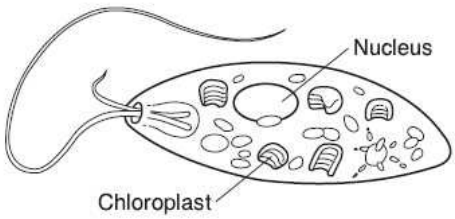
12. Eukarya, Fungi



13. Eukarya, Animalia



14. Bacteria, Eubacteria



15. Eukarya, Protista