

Name: \_\_\_\_\_

## Early vs. Modern Classification Student Practice (17.1)

1. Aristotle created the first widely used classification system. List two reasons why his classification system is no longer accepted by scientists?
2. What is binomial nomenclature? Who created it and describe why this system is more efficient than those used in the past?
3. What are the two parts of a scientific name? Describe how it should be properly written and provide an example.
4. List the eight taxonomic categories currently in use. Create a mnemonic device and write it down below to help remember the categories and their correct order.
5. Compare and Contrast Aristotle's Classification system versus Carolus Linnaeus system.

### Interpreting Graphics:

#### Answer True or False to the following statements:

1. \_\_\_\_\_ Dogs belong to the order Felidae.
2. \_\_\_\_\_ A fox belongs to the phylum Arthropoda.
3. \_\_\_\_\_ Snakes belong to the phylum Reptilia.
4. \_\_\_\_\_ Lions belong to the class mammalia.
5. \_\_\_\_\_ All arthropods belong to the class Insecta.
6. \_\_\_\_\_ All rodents belong to the phylum chordata.
7. \_\_\_\_\_ All amphibians belong to the class reptilian.
8. \_\_\_\_\_ All primates are mammals.
9. \_\_\_\_\_ The class mammalian includes dogs, cats, & rats.
10. \_\_\_\_\_ A lion belongs to the genus Felis.
11. \_\_\_\_\_ All mammals are primates.
12. \_\_\_\_\_ Insects and lobsters are arthropods.

#### In each set, circle the pair that is most closely related.

13. snakes & crocodiles / snakes & frogs
14. rats & cats / cats & dogs
15. insects & lobsters / insects & birds
16. lions & tigers / lions & cougars
17. foxes & rats / foxes & dogs
18. cats & dogs / cats & lions
19. List (use the species name) all the animals pictures that belong in the Felidae family.
20. List all the animals pictured that belong to the Carnivora order.

#### Short Answer based on the graphic:

1. What can you conclude about animals who have many taxonomic groups in common?

