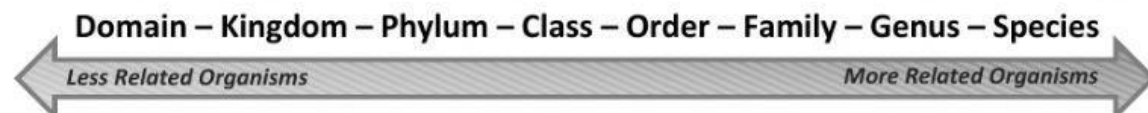


Name: _____ Date: _____ Period: _____

Homework: Taxonomy

1. What question does the merchant's ghost ask the visitors that come to his house?



Use the diagram above and your knowledge of taxonomy to answer the questions below.

2. Which of the following sets of animals would be the *most* closely related?

- | | |
|------------------------------------|-------------------------------------|
| A Animals in the same order | C Animals in the same class |
| B Animals in the same genus | D Animals in the same family |

3. Which of the following sets of insects would be the *most* closely related?

- | | |
|-------------------------------------|--------------------------------------|
| A Insects in the same class | C Insects in the same order |
| B Insects in the same family | D Insects in the same species |

4. Which of the following taxonomic groups would contain plants with the greatest amount of variety and differences?

- | | | | |
|------------------|-----------------|----------------|-----------------|
| A Kingdom | B Phylum | C Order | D Family |
|------------------|-----------------|----------------|-----------------|

5. Which of the following groups of vertebrates would contain the *least* related animals?

- | | |
|--|---|
| A Vertebrates in the same genus | C Vertebrates in the same class |
| B Vertebrates in the same species | D Vertebrates in the same family |

6. Which of the following taxonomic groups would contain the *most* related set of animals?

- | | | | |
|-----------------|------------------|-----------------|----------------|
| A Domain | B Species | C Family | D Order |
|-----------------|------------------|-----------------|----------------|

7. Which of the following sets of animals would contain the *least* closely related organisms?

- | | |
|-------------------------------------|-------------------------------------|
| A Animals in the same phylum | C Animals in the same class |
| B Animals in the same genus | D Animals in the same family |

8. Which of the following groups of fungi would be the *most* closely related?

- | | |
|------------------------------------|----------------------------------|
| A Fungi in the same phylum | C Fungi in the same order |
| B Fungi in the same kingdom | D Fungi in the same class |

9. Which of the following taxonomic groups would contain organisms with the greatest amount of genetic similarities?

- | | | | |
|-----------------|------------------|-----------------|----------------|
| A Domain | B Kingdom | C Phylum | D Class |
|-----------------|------------------|-----------------|----------------|

10. Taxonomy is best defined as the science of –

- | | |
|---|---|
| A describing the regulation of genes | C developing new species via genetic engineering |
| B studying microscopic life forms | D classifying organisms based on characteristics |

11. The American lobster (*Homarus americanus*) is most closely related to which of the following organisms?

- A** Cape lobster (*Homarus capensis*) **C** Patagonian lobsterette (*Thymops birsteini*)
B Common lobster (*Homarus gammarus*) **D** Scarlett clawed lobster (*Nephropsis atlantica*)

12. Black panthers (*Panthera onca*) are a color variant of a species of large cats. Black panthers would be most closely related to what organism listed below?

- A** Tiger (*Panthera tigris*) **C** Puma (*Puma concolor*)
B Cheetah (*Acinonyx jubatus*) **D** Jaguar (*Panthera onca*)

13. The desert locust (*Schistocerca gregaria*) is a species of insect that has been known to destroy the crops of farmers in Africa, Asia and the Middle East. Which insect below is most related to the desert locust?

- A** Brown locust (*Locustana pardalina*) **C** American grasshopper (*Schistocerca americana*)
B Desert orangetip (*Anthocharis cethura*) **D** Red locust (*Nomadracis septemfasciata*)

Class	Reptilia	Reptilia	Reptilia	Reptilia
Order	Squamata	Testudines	Squamata	Squamata
Family	Iguanidae	Emydidae	Iguanidae	Polychrotidae
Genus	Dipsosaurus	Terrapene	Sauromalus	Polychrus
Species	<i>D. dorsalis</i>	<i>T. carolina</i>	<i>S. ater</i>	<i>P. achutirostris</i>
Common Name	Desert iguana	Box turtle	Chuckwalla	Bush anole

14. Which of the following pairs of organisms from the table shown above would be the most closely related?

- A** Desert iguana and Box turtle **C** Box turtle and Bush anole
B Chuckwalla and Bush anole **D** Desert iguana and Chuchwalla

Use the dichotomous key to classify each of the ARTHROPODS shown into the correct class.

1a – Lives on land Go to 2

1b – Lives in water Class Crustacea

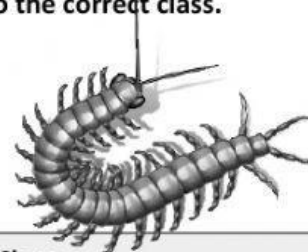
2a – Six legs Class Insecta

2b – Eight legs Class Arachnida

2c – More than eight legs Go to 3

3a – One pair of legs per body segment Class Chilopoda

3b – Two pairs of legs per body segment Class Diplopoda



Class:



Class:



Class:



Class:
