Chaptell 17 your textbook r each item

Organizing Life's Diversity

Reinforcement and Study Guide

Section 17.1 Classification

In your textbook, read about how classification began and about biological classification.

For each item in Column A, write the letter of the matching item in Column	$\mathbf{B}_{\bullet}^{(n)}(\mathbb{R}^{n-1}) = (m-2^{\frac{1}{2}})^{n-1}(d^{\frac{1}{2}})$
Column A	Column B
1. Grouping objects or information based on similarities	a. Aristotle
2. Naming system that gives each organism a two-word name	b. Linnaeus
3. Developed the first system of classification	c. genus
4. Branch of biology that groups and names organisms	d. classification
5. Designed a system of classifying organisms based on their physical and structural similarities	e. taxonomy f. binomial
6. Consists of a group of similar species	nomenclature
	and the second s
7. The scientific name of a species consists of a family name and a descriptive name	
8. The scientific name of modern humans is Homo sapiens.	i Mir en
9. Latin is the language of scientific names.	
10. The scientific names of organisms can be misleading.	
11. Taxonomists try to identify the evolutionary relationships among organisms.	
12. Besides comparing the structures of organisms, taxonomists also compare the distribution and <i>chemical makeup</i> .	organisms' geographic
13. Similarities between living species and extinct species cannot be used to determine to each other.	ne their relationship
14. Because the bones of some dinosaurs have large internal spaces, some scientists more closely related to amphibians than to reptiles.	think dinosaurs are
15. Classification can be useful in identifying the <i>characteristics</i> of an unknown orga	nism.

Domestic Dog

Animalia

Chordata

Mammalia

Carnivora

Canidae

Canis

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Taxon

Kingdom

Phylum

Class

Order

Family

Genus

Organizing Life's Diversity, continued

Reinforcement and Study Guide

Section 17.1 Classification, continued

Human

Animalia

Chordata

Primates

Homo

Mammalia

Hominidae

In your textbook, read about how living things are classified

Green Frog

Ánimalia

Chordata

Amphibia

Anura

Rana

Ranidae

Examine the table showing the classification of four organisms. Then answer the questions.

Mountain Lion

Animalia

Chordata

Mammalia

Carnivora

Felidae

Felis

	Species Ran	ia clamitans	Felis concolor	Canis familiaris	Homo sapiens		
6	. Which taxon inclu	ides the mos	st specific characteristic				
			adest characteristics?		and the second		
	Which taxon includes more species, an order or a family?						
	,	-	•	sfully interbreed?			
	-		e same family, what oth	er taxonomic groups do	the organisms have		
! .	Which two organi	sms in the c	hart are most closely re	elated? Explain.	The second se		
			·				
		•	to produce the state of the state of	e en	en) en		
		11 6	nisms belong?		e i e e e		
2.	To which taxa do a	ill four orga	y by the transfer of the				
	tetrany i a la company a service de la company de la compa	i v to to to to to		or fur?	The state of the s		
3.	Which class does r	not include a	animals that have hair o	or fur?	Type Control of the State Cont		
3. 4.	Which class does reward What is the order, Using the information	not include a family, and	animals that have hair of genus of a human? chart, what can you con ana temporaria?	or fur?	cation taxa of an organ-		
3. 4.	Which class does really What is the order, Using the informatism with the scient	family, and tion in the capific name Ra	animals that have hair or genus of a human? chart, what can you con ana temporariu?	clude about the classific	cation taxa of an organ		