CHAPTER

(36)

DIRECTED READING

← Mammals

► Section 36-1: The Mammalian Body

Mammals Share Five Key Characteristics

Complete each statement by writing the correct term or phrase in the space provided.

- 1. A(n) ______ is a filament composed mainly of dead cells filled with the protein keratin.
- **2.** The primary function of hair is ______.

Mammals Have Diverse, Specialized Teeth

Read each question, and write your answer in the space provided.

3. What are the four types of teeth in mammals?

- **4.** What are the two sets of teeth in mammals?
- 5. Why do mammals have more efficient teeth than do reptiles?

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Mammals Maintain a High Body Temperature

Read each question, and write your answer in the space provided.

6.	What are three benefits that mammals derive from being endothermic?				
7	Why have mammals evalved very efficient circulatory and requiretory evators?				
/.	Why have mammals evolved very efficient circulatory and respiratory systems?				
8.	Why is the four-chambered heart with a septum that completely divides the ventricle an efficient structure for circulating blood?				
9.	How do grizzly bears reproduce?				
•					
	nplete each statement by writing the correct term or phrase he space provided.				
10.	Respiration in mammals is aided by the $____$, a sheet of muscle that separates the chest cavity from the abdominal cavity.				
11.	In mammalian lungs, the individual are small and numerous, increasing the surface area for the diffusion of gases.				
Ma	mmals Nurse and Care for Their Young				
	nplete each statement by writing the correct term or phrase he space provided.				
12.	A nutrient-rich energy source called milk is produced in the				
	of mammals.				
13.	occurs when mammalian mothers stop nursing their young.				

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► Section 36-2: Today's Mammals

Mammals Have the Most Diverse Body Form of All Vertebrates

Mark each statement below T if it is true or F if it is false.					
1. Bats are mammals that fly.					
2. Whales are mammals that live in oceans.					
3. Whales have gills that absorb oxygen from the water.					
4. Bats and whales both use echolocation to navigate in the dark.					
Mammals Reproduce in One of Three Ways					
Complete each statement by underlining the correct term or phrase in the brackets.					
5. A [platypus / lizard] is an example of a monotreme.					
6. Monotremes reproduce by [laying eggs / giving birth to fully developed young].					
7. Female monotremes [have / do not have] nipples.					
8. Female monotremes [have / do not have] mammary glands.					
9. [Spiny anteaters / Opossums] are monotremes.					
Read each question, and write your answer in the space provided.					
10. Describe the birth and development of young marsupials.					
11. Why are marsupials found only in Australia and New Guineas?					
12. What is the function of the placenta?					

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Most of Today's Mammals Are Placental

Write the correct placental mammal from the list below in the space next to its characteristics.

apes bats dogs		horses manatees pigs	rodents seals shrews
elephants		rabbits	whales
	13.	small, intelligent, with two pairs of large, curving incisor teeth that grow continuously	
	14.	capable of true flight; hang upside down during the day	
	15.	eat mainly insects	
 16. strong, intelligent, successful hunters; long, of the strong intelligent		strong, intelligent, successful h	unters; long, canine teeth
		marine carnivores that feed at sea but return to land to mate, rear their young, and rest	
		et; exceptional ability to learn	
	19.	hoofs with an even number of to	oes; chew their cud
	20.	hoofs with an odd number of too	es; do not chew their cud
	21.	streamlined bodies; front limbs blowhole located on top of the h	/
	22.	have one pair of long, continuou hind legs	asly growing incisors; long
	23.	barrel-shaped, marine, and graz	e on aquatic plants
	24.	nose and upper lip modified into	o a trunk that is used for a

variety of tasks