Name Class	Date
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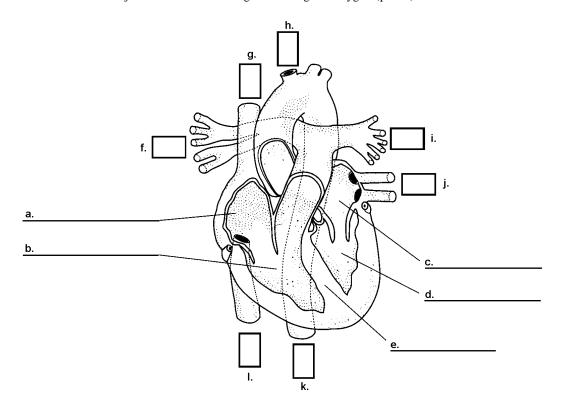
SECTION 32-1 REVIEW

INTRODUCTION TO THE MAMMALS

voc	ABUL	AR۱	REVIEW Define the following terms	s and e	xplain its importance.
1. ı	mamm	ary į	gland		
2. (diaphra	agm			
3. (erebra	al co	rtex		
- 4. r	 nocturn	 al _			
5. s	subcuta	aneo	us fat		
MUL	TIPLE	СН	OICE Write the correct letter in the	blank.	
	_ 1.	Th	e heart of a mammal		
		a. b. c. d.	contains two chambers, like the heart of a bicontains four chambers, like the heart of an has four chambers with all of them complete allows deoxygenated blood to mix with oxygenated blood.	amphibi ely separ	ated.
	_ 2.	Th	e lower jaw of a mammal		
		a. b.	is composed of a single, large bone. contains teeth that are uniform in size.	c. d.	contains teeth that are uniform in shape. does not usually leave a trace in the fossil record.
	_ 3.	Ear	rly mammals are thought to have avoided com	petition	with dinosaurs by feeding on
		a. b.	insects at night. plants at night.	c. d.	
	_ 4.	On	e place where you would expect to find mamr	nals but	not reptiles is
		а	a desert. b. the Arctic.	c	a rain forest d. the ocean

Naı	ne Class Date
SH	ORT ANSWER Answer the questions in the space provided.
1.	Discuss the process of respiration in all mammals, including whales. (p.824)
2.	How are symbiotic bacteria beneficial to plant-eating mammals? (p.823)
3.	Name the three main parts of a mammalian brain, and list a function of each part. (p.825)
4.	The ears of North American mammals are often smaller in arctic species than they are in desert species. Explain why there is such a difference. Hint: Think of surface area. (p.822)
5.	The bones in the limbs of a monkey, horse, mole, bat, and seal are said to be homologous. What does homologous mean? (p.826)

STRUCTURES AND FUNCTIONS Identify the structures labeled a - e in the diagram of a mammalian heart shown below. In the rectangles labeled f - l, draw an arrow to indicate whether blood is flowing toward the heart or away from the heart. Use the following terms: right atrium, left atrium, right ventricle, left ventricle, and septum. Color the chambers on the right side blue to represent blood high in carbon dioxide and low in oxygen. Color the left side of the heart red. This is blood that just came from the lungs and is high in oxygen. (p.824)



Name	Class	Date
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SECTION 32-2 REVIEW

DIVERSITY OF MAMMALS

vo	CABUL	ARY REVIEW De	efine the following te	erms and ex	xplain its impor	tance.
1.	monotr	eme mammal				
2.	marsup	ial mammal				
3.	placent	al mammal				
4.	converg	ent evolution				
ΜU	ILTIPLE	CHOICE Write	the correct letter in t	he blank.		
	1.	The egg-laying mam	mals are commonly call	ed		
		a. monotremes.	b. marsupials.	c.	carnivores.	d. rodents.
	2.	Which of the follows	ng animals is a marsupi	al?		
		a. echidnab. spiny anteater		c. d.	duckbilled platy kangaroo	pus
	3.	Proboscideans are m	ammals that			
		a. have sharp teethb. have trunks.	and claws.	c. d.	spend most of the	eir time underwater. I antlers.
	4.	Chiropterans are con	nmonly called			
		a. sloths.	b. manatees.	c.	bats.	d. whales.
	5.	At hatching, a mono	treme is			
		b. small but fully d	only partially developed. leveloped. ed but only partially deve			

d. nearly adult-sized and fully developed.

			Cla	ss	Date
SH	ORT ANSWER	Answer the question	ons in the space pro	ovided.	
1.	A large mammal	is standing in a meadov	w chewing its cud. It h	as an even number of toe	s on its hooves. Is
	perissodactyl, pro	boscidean, or artiodact	tyl? Explain your ansv	wer. (pp.830-831)	
2.		alian order to which hu	mans belong and what	other animals are in this	order? (p.831)
3.		nta and what four mate	rials are exchanged thr	rough it? (p.829)	
4.	What effect on th	e evolution of mammal	s was caused when the	continents drifted apart?	(p.832)
	RUCTURES ANI	D FUNCTIONS In th	ne space above each dr	awing below, write the na	me that correspond
ora	der of the mammal	shown in that drawing.	Choose the names fro	on the following list: (pp.	830-831)
ord	Artiodactyla Carnivora Cetacea	chiroptera Chiroptera Marsupialia Monotremata	Lagomorpha Primates Proboscidea	Perissodactyla Sirenia Xenarthra	Rodentia Insectivora
ord	Artiodactyla Carnivora	Chiroptera Marsupialia	Lagomorpha Primates	Perissodactyla Sirenia	Rodentia
ord	Artiodactyla Carnivora	Chiroptera Marsupialia	Lagomorpha Primates	Perissodactyla Sirenia	Rodentia
ord	Artiodactyla Carnivora	Chiroptera Marsupialia	Lagomorpha Primates	Perissodactyla Sirenia	Rodentia Insectivora
ord	Artiodactyla Carnivora	Chiroptera Marsupialia	Lagomorpha Primates	Perissodactyla Sirenia	Rodentia Insectivora
ord	Artiodactyla Carnivora	Chiroptera Marsupialia	Lagomorpha Primates	Perissodactyla Sirenia	Rodentia Insectivora

Name	Class	Date
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SECTION 32-3 REVIEW

PRIMATES AND HUMAN ORIGINS

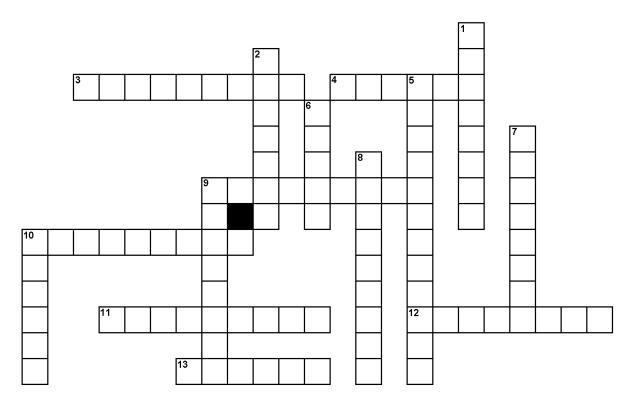
VOCA	ABUL	ARY REVIEW Define the following terms	s and ex	xplain its importance.
1. bi	inocul	lar vision		
2. p ı	rehens	asile		
3. bi	ipedal	ıl		
 4. o p	pposal	able thumb		
5. h o	omini	id		
MULT	TIPLE	E CHOICE Write the correct letter in the	blank.	
	1.	Small, nocturnal primates with large eyes adapte	d to seeii	ng in the dark belong to the primate group called
	1.		u to seen	
		a. prosimians. b. anthropoids.	c.	hominoids. d. hominids.
	2.	Having a thumb that can move against the other	fingers m	akes it possible for a primate to
		a. hold objects firmly.	c.	display elaborate social behaviors.
		b. merge visual images.	d.	judge the locations of tree branches.
	3.	Hominids differ from other primates on the basis	s of all of	the following except
		•		
		a. brain size.b. method of locomotion.	c. d.	method of reproduction. shape of the hip bones.
		o. method of focomotion.	u.	shape of the hip bones.
	4.	A primate that uses its prehensile tail to swing fr	om branc	th to branch is the
		a. gorilla. b. chimpanzee.	c.	spider monkey. d. gibbon.
	5.	Bipedal locomotion consists of		
		a. swinging from branch to branch.	c.	using the tail to grasp branches.
		b. walking upright on two feet.	d.	Both a and c are correct.

Name				Cl	ass		Date	
SHORT ANS	SWER Ans	wer the que	estions in t	he space p	rovided.			
l. Compare			•					
	e paleontolog	ists changed t	their views o	n the evolution		minids? Wh	at caused the	em to change
	e ranges during for all the sp	ng which each ecies in the g	n species may genus <i>Homo</i> (y have existed (H) red . Cold	d. Each speci or the bars for	es has a genur r all the spec	us name and ies in the ger	
							Homo sap	oiens 🗆
						H. n	eanderthale	ensis 🔲
						H. heide	elbergensis	
						H. ant	ecessor 🗀	-
					Н. 6	erectus 🗀		
					H. erg	gaster 🗀	\supset	
					H. habilis	s]	
		Australop	ithecus bahi	relghazali 🗆				
		A	lu. anamens	is				
				Au.	rudolfensis			
					Au. garhi			
			Au. afare	ensis				
				Au. afric				
					nropus robus			
				P. a	ethiopicus [
					P. boise	<i>i</i>		
8	7	6	5	4	3	2	1	0
			Millions o	f Years Ago				
1. Which ho	minid existed	at the earlie	st time?					

Name Class	Date
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VOCABULARY - CHAPTER 32

The crossword puzzle is a simple way to master some of the more important vocabulary terms in this chapter.



Across

- 3. 95% of all mammals develop internally and are nourished by a special organ of exchange called the placenta; these mammals are called ___ mammals
- 4. _____ is a keratinized plate that hangs from the roof of the mouth of some whales
- 9. a pouched mammal like the opossum and kangaroo
- 10. egg laying mammal like the duckbilled platypus
- 11. hoofed mammals
- 12. ____ are the front teeth of mammals that are used to bite or snip food
- 13. _____ teeth in mammals are used for piercing flesh; also called fangs

Down

- 1. an aquatic carnivore like a seal, sea lion, or walrus
- gland is a modified sweat gland that produces milk
- 5. using high frequency sound waves to find objects
- 6. a pouch at the beginning of the large intestine that helps some mammals digest cellulose
- 7. the order of mammals that have an opposable thumb; monkeys, apes, and humans
- 8. a sheet of muscle that separates the thorax from the abdomen; the breathing muscle found in mammals
- 9. class of vertebrates that are warm-blooded, feed their young milk, and have body hair
- 10. the back teeth of mammals used to crush food are called the _____

The following words are **not** in this chapter but are used in this puzzle. Use a reference source and look up their meanings to complete this puzzle. **baleen, ungulates, pinniped, echolocation, and cecum**.