Name	Date	Class
CHAPTER <b>30</b> DIRECTED READ	NG	
Mollusks a	nd Annelids	
Section 30-1: Moll	sks	
Mollusks Have a True Co	lom	
Complete each statement by w in the space provided.	riting the correct term or phrase	
1. Mollusks and annelids were	the first organisms to develop a(n)	)
2. Mollusks and annelids hav	a larval stage called a(n)	
Read each question, and write	your answer in the space provided	I.
3. What is one of the evolution	nary advantages of having a true c	:oelom?
	2. 	E
		2
4. What are the characteristi	s of a trochophore?	
	•	
	10 - 10 - 12	
Mollusks Share Several K	ey Characteristics	
In the space provided, write th	•	
best matches the term or phra 5. visceral mass		organ located in the mouth
6. mantle	b. muscular region us locomotion	-
7. foot		used to recover useful lomic fluid before fluid
8. radula	waste is discharge d. central section con	

9. nephridia

e. heavy fold of tissue that forms the outer layer of the body

Mark each	state	ement below T if it is true or F if it is false.
	10.	Mollusks exhibit radial symmetry.
	11.	The digestive tract of mollusks is surrounded by mesoderm, which acts as a barrier to the diffusion of nutrients into the cells of the body.
	12.	Most mollusks have a four-chambered heart and a closed circulatory system.
	13.	The gills of a mollusk are located in the mantle cavity.
	14.	All mollusks are hermaphrodites.

### Mollusks Show Many Variations on a Body Plan

In the space provided, write the letter of the description that best matches the term or phrase.

15. gastropods	a. two thick muscles that connect the valves (shells) of bivalves
<b>16.</b> nudibranchs	<ul> <li>b. class of mollusks that includes oysters, clams, and scallops</li> </ul>
17. bivalves	c. class of mollusks that includes snails and slugs
18. adductor muscles	<ul> <li>hollow tubes used to carry water to and from gills</li> </ul>
19. siphons	<ul> <li>class of mollusks that includes squids and octopuses</li> </ul>
20. cephalopods	f. a type of gastropod

#### Mark each statement below T if it is true or F if it is false.

- **21.** Terrestrial species of gastropods secrete a mucus onto the ground to form a slimy path that they can glide along.
- **22.** Gastropods are not edible.
- **23.** The valves, or shells, of a bivalve are secreted by the mantle.
- **24.** The gills of clams are covered with mucus that traps food particles.
- **25.** The foot of an octopus is divided into eight tentacles.
- \_\_\_\_\_ 26. All cephalopods lack an external shell.
- **27.** Cephalopods are the most intelligent invertebrates.
  - **28.** Cephalopods feed by filtering organisms from the water.

# ► Section 30-2: Annelids

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## **Annelids Were the First Segmented Animals**

In the space provided, write the letter of the description that best matches the term or phrase.

·	1. segments	a. primitive brain
	2. cerebral ganglion	<ul><li>b. fleshy appendages</li><li>c. body cavity</li></ul>
	3. septa	d. external bristles
	4. coelom	e. series of repeated structures along the length of the body
	5. setae	f. internal body walls that separate the segments of most annelids
	6. parapodia	

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

7. How do nutrients and other materials pass between the segments of an annelid?

unctions o		nents perf	orm and h	low do the	ey differ?		
	-	-			ollusks and	1 annelids	\$?
				2			
	s the prim	s the primary evolut	unctions do the segments perfo	unctions do the segments perform and h	unctions do the segments perform and how do the	unctions do the segments perform and how do they differ?	s the primary evolutionary difference between mollusks and annelids

## **Annelids Are Grouped According to Their External Features**

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

10. Marine segmented worms are members of the class
11. A distinctive characteristic of polychaetes is a pair of fleshy, paddlelike
that occur on most of their segments, and are used to swim, burrow, or crawl.
12. Tubeworms live with their heads stuck out of a(n) formed by the hardened secretions of glands located on their segments.
13. Nereis are that use strong jaws to feed on small animals.
14. Earthworms are members of the class
15. Oligochaetes have no and only a few or each segment.
16. Earthworms have neither a distinctive region nor
However, they do have light-sensitive and touch-sensitive organs located at each end of their body.
17. The grinding action of the inside the digestive system of the earthworm crushes the soil particles together.
18. The tunneling activity of earthworms allows to penetrate the
soil, and the of earthworms fertilize the soil.
<b>19.</b> The fluid within the coelom of each body segment creates a(n)
20. When the muscles of an earthworm contract, the segment
elongates, and when the muscles contract the segment bunches up, increasing in diameter.
21. Leeches are the only members of the class
22. Leeches lack both and
23. The body of a leech is flattened and its are not separated internally.

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