

What Is an Animal?, continued

Reinforcement and Study Guide

Section 25.2 Body Plans and Adaptations

In your textbook, read about kinds of sym	metry in animals.
Circle the letter of the choice that bes	et completes the statement or answers the question.
1. Different kinds of symmetry make it	possible for animals to
a. grow very large.	b. survive when cut into pieces.
c. move and find food in different w	ays. d. live a long time.
2. The irregularly shaped body of a spo	nge is an example of
a. asymmetry.	b. gastrulation.
c. symmetry.	d. balance.
3. A sponge's body has how many layers	s of cells?
a. one	b. two
c. three	d. four
4. The embryonic development of a spo	onge does not include which of the following?
a. formation of endoderm	b. formation of mesoderm
c. a gastrula stage	d. a, b, and c
5. If you divided a radially symmetrical up with	animal along any plane through its central axis, you would end
a. roughly equal halves.	b. front and back halves.
c. top and bottom halves.	d. three pieces.
6. Which of the following animals is not	
a. a hydra	b. a sea urchin
c. a spider	d. a starfish
7. An organism with bilateral symmetry	can be divided lengthwise into right and left halves that are
a. asymmetrical.	b. mirror images of each other.
c. made up of two cell layers.	d. flattened.
Identify each of the following body par 8. the navel of 9. the sail fin of 10. the back of y 11. the mouth of	n an iguana our neck



12. the pouch of a kangaroo



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ur textbook, read	d about bilateral symmetry and body plans.	
er the followin	g questions.	
n what ways was ymmetrical anin	the development of a body cavity, or coelom, an advantage for bilaterally nals?	
Describe an acoe	lomate animal's body plan.	
	s get to the cells in a flatworm's solid, acoelomate body?	
	ns below just once to complete the passage.	
coelom	completely double internal organs	
mesoderm	partly pseudocoelom	
ndworm has a (*	16), a fluid-filled body cavity that is (17)	
with (18)	. Coelomate animals have a (19), a body	
that is (20)	surrounded by mesoderm and in which complex	
	are suspended by (22) layers of mesoderm tissue.	
ır textbook, read	about animal protection and support.	
ach statement	below, write <u>true</u> or <u>false</u> .	
	23. During the course of evolution, animal body plans have decreased in complexity.	
	24. An exoskeleton provides protection and support on the outside of an animal's body, as well as a place for muscle attachment.	
	25. An endoskeleton is a support framework housed within the body, a protective enclosure for internal organs, and a brace for muscles to pull against.	
	26. An invertebrate is an animal with a backbone.	

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