

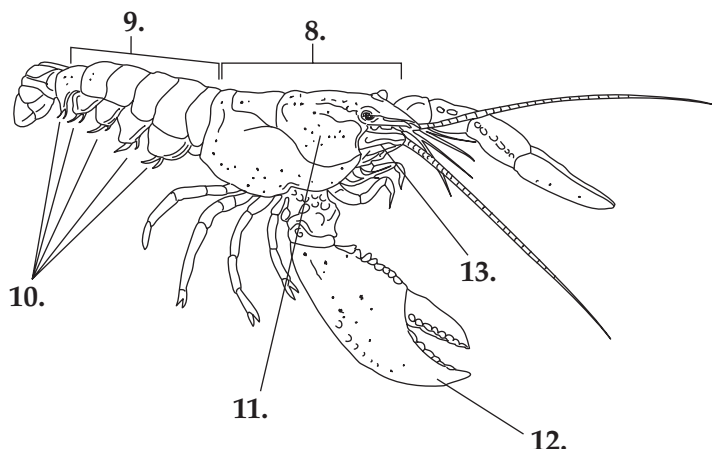
## Chapter 28 Arthropods and Echinoderms

## Chapter Vocabulary Review

**Matching** On the lines provided, write the letter of the description that best matches each term on the left.

- |                            |   |
|----------------------------|---|
| _____ 1. thorax            | a. shedding of the exoskeleton  |
| _____ 2. chitin            | b. extracts waste from the blood                                      |
| _____ 3. appendage         | c. made of layered respiratory tissue                                 |
| _____ 4. spiracle          | d. body section behind the head                                       |
| _____ 5. book lung         | e. a leg or an antenna  |
| _____ 6. Malpighian tubule | f. material in an exoskeleton   |
| _____ 7. molting           | g. small opening where air enters and leaves the body of an arthropod |

**Labeling Diagrams** On the lines provided, label the structures of a crayfish as one of the following: abdomen, swimmeret, cheliped, mandible, cephalothorax, and carapace.



8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_

**Multiple Choice** On the lines provided, write the letter of the answer that best completes the sentence or answers the question.

- \_\_\_\_\_ 14. Horseshoe crabs respire through organs called
- |                    |                |
|--------------------|----------------|
| a. tracheal tubes. | c. book lungs. |
| b. book gills.     | d. spiracles.  |
- \_\_\_\_\_ 15. The mouthpart of a spider that contains a fang is called a
- |               |               |
|---------------|---------------|
| a. spinneret. | c. chelicera. |
| b. pedipalp.  | d. thorax.    |
- \_\_\_\_\_ 16. What immature form of an insect looks very much like an adult?
- |          |          |
|----------|----------|
| a. pupa  | c. larva |
| b. nymph | d. egg   |

- \_\_\_\_\_ 17. Animals that hatch into larvae that look and act nothing like their parents go through a process called
- a. complete metamorphosis.      c. adolescence.
  - b. incomplete metamorphosis.      d. puberty.
- \_\_\_\_\_ 18. What chemicals do insects use to communicate?
- a. nymphs      c. castes
  - b. chelicerae      d. pheromones

**Completion** *On the lines provided, complete the following sentences.*

19. Most terrestrial arthropods breathe through a network of branching \_\_\_\_\_.
20. Spiders have mouthparts called \_\_\_\_\_ that are adapted to grab prey.
21. A group of closely related animals of the same species that work together for the benefit of the whole group is called a(an) \_\_\_\_\_.
22. A group of individuals that performs a particular task within a society is called a(an) \_\_\_\_\_.
23. The system of internal tubes found in echinoderms is called a(an) \_\_\_\_\_.
24. A sievelike structure called a \_\_\_\_\_ connects the water vascular system to the water outside the animal.
25. On an echinoderm, a(an) \_\_\_\_\_ is a structure that operates much like a living suction cup.