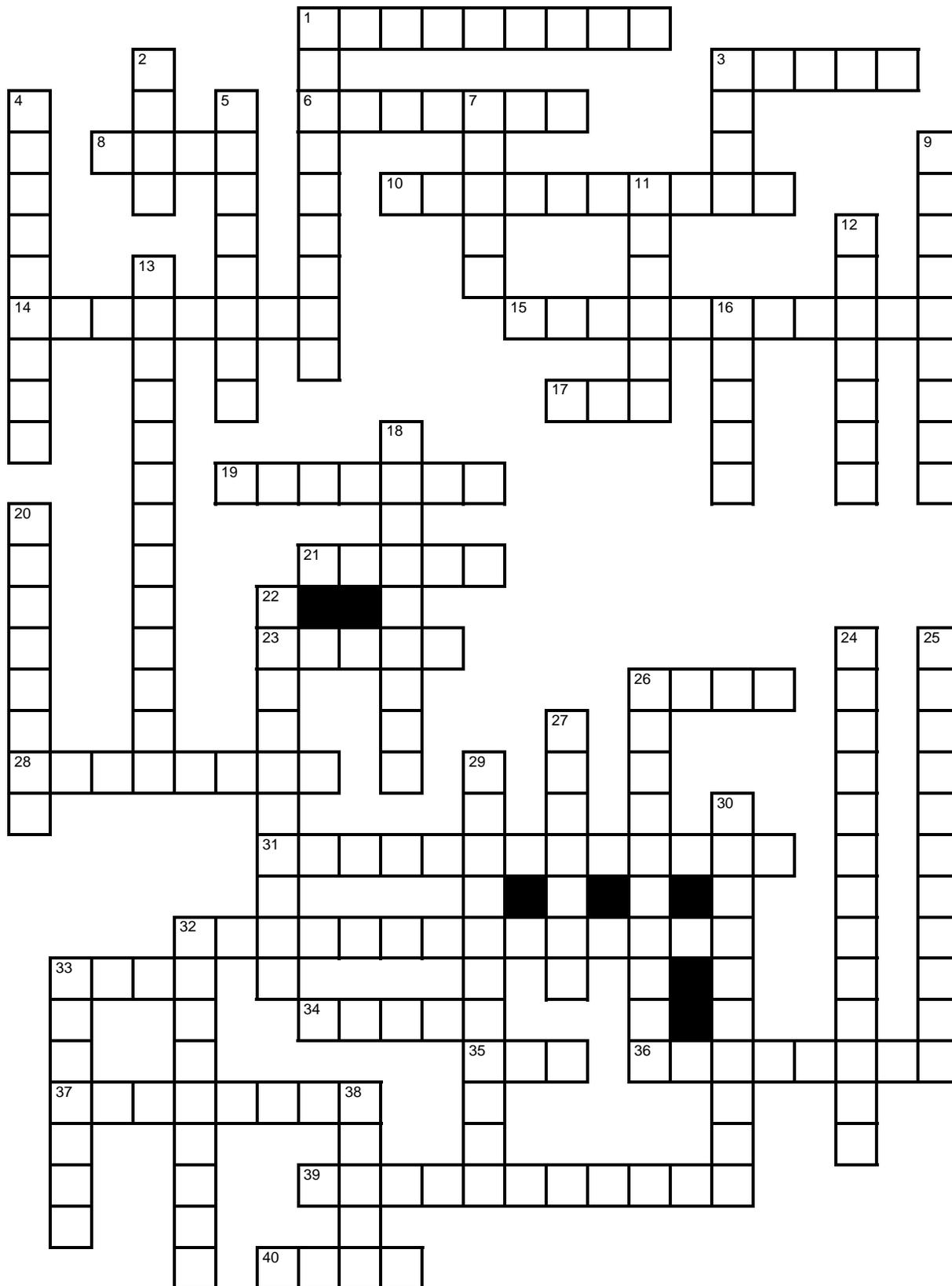


# ch-28 Arthropods and Echinoderms

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## Across

1. Crustaceans usually have mouth parts called -?-.
3. The chelicerae of spiders are basically -?-
6. The job of a queen insect is to -?-
8. Spiders have -?- antenna.
10. What is the name of the insect **order** with the most species?
14. Insects have -?- eyes.
15. -?- arthropods must use a form of internal fertilization, or else the gametes would dehydrate and die.
17. Humans get such useful items as silk, -?- and honey from insects.
19. The malpighian tubules of insects have the same function as human -?-
21. Most non-social insects communicate in order to find -?-
23. The immature form of an insect that undergoes incomplete metamorphosis is called a -?-
26. A -?- is basically a parasitic arachnid.
28. Echinoderms use -?- reproduction, and the parents never meet each other.
31. What part of a crayfish is covered by the carapace.
32. It is -?- and division of labor that allows insect societies to do so much.
33. The anterior pair of swimmerets are enlarged in the -?- crayfish.
34. The immature form of an insect that undergoes complete metamorphosis is called a -?-
35. Spiders have -?- body sections.
36. A -?- is a carnivorous arachnid with pincers and a poison barb at the end of its abdomen.
37. Star fish respire, urinate, and locomate with their -?-.
39. What crayfish organ lies in the head near the brain?
40. Bugs have muscles that extend and -?- joints.

## Down

1. A -?- is a detritivore, with 4 legs per segment.
2. Arthropods have an -?- circulatory system.
3. The crustaceans usually have -?- antennae.
4. The air exits an insect's tracheal tubes through holes called -?-.
5. Spiders use a -?- for respiration.
7. Crustaceans use -?- for respiration.
9. Scorpions use -?- for respiration.
11. The legs of an insect are attached to the -?-
12. All arthropods have -?- appendages.
13. The insects that cause the most harm to humans are the ones that -?-
16. The echinoderms are characterized by their -?- skin.
18. A -?- is a carnivorous arthropod with 2 legs per segment.
20. Since Echinoderms do not have a brain it is assumed that their responses to stimuli are guided by -?-
22. The appendages of the uniramians are -?-.
24. What is the one thing that all Echinoderms lack?
25. Arthropods have an -?- made of chitin.
26. Arthropods have evolved from -?-.
27. Bugs have a brain connected to a -?- nerve cord.
29. Many foods we eat depend on -?- by insects.
30. Spiders are -?-, using their silk to make webs and catch prey.
32. Arthropods have a -?- body.
33. During -?- an insects sheds its old exoskeleton.
38. Insects have -?- body segments.