

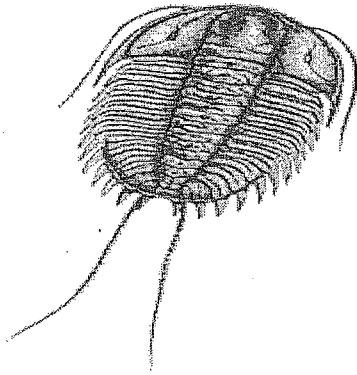
Name: _____

Date: _____

Phylum Arthropoda

Read pp. 715-719 of the Miller Levine Biology Text

1. In the picture to the right, an extinct arthropod is shown, what is its name?



2. List two evolutionary trends that most living arthropods have exhibited in their adaptation away from the morphology of their ancestor the trilobite.

a) _____

b) _____

4. List three distinguishing arthropod features

a) _____

b) _____

c) _____

3. What type of carbohydrate makes up their exoskeleton? _____

4. What are the major disadvantages of having an exoskeleton? _____

5. What does "Arthro - Pod" literally translate to mean? _____

6. List five different modes of feeding seen in this phylum

a) _____

b) _____

c) _____

d) _____

e) _____

7. Arthropods tend to use one of three structural system for respiration, list and describe the type used by the arthropod listed:

A) Crabs: _____

B) Spiders: _____

C) Insects: _____

8. How many hearts do arthropods have and what type of circulatory system do they possess?

9. What do Malpighian Tubules do, and what human organ do they mimic?

10. The nervous system of most arthropods is most similar to which one of the animals we have studied? (use your brain to answer this one)

A) Sponge B) Hydra C) Planaria D) Earthworm E) Clam

11. Describe the structure of a compound eye.

12. Most arthropods use what type of...

A) Reproduction: _____ B) Fertilization: _____