

The Arthropod Story Pre-Test

Name _____ Class _____ Date _____

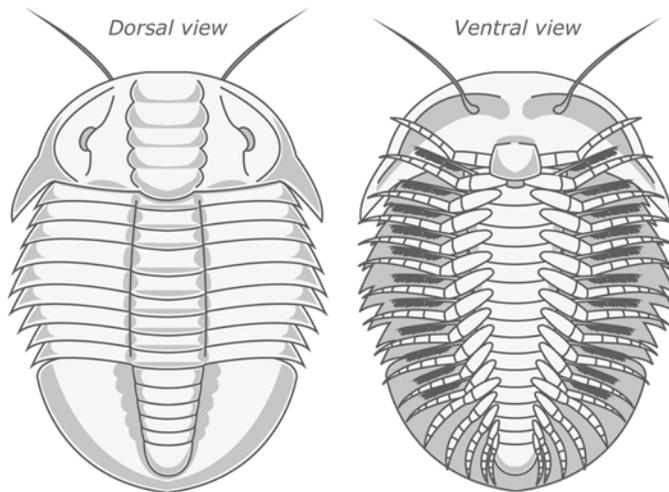
Directions: Please answer each of the following questions. If you do not know the answer, just leave it blank. You will be asked similar questions after you complete the tour so that you can see how much you have learned!

1. Name at least four traits that are shared by all arthropods.

2. Which statement about fossil arthropods is the most accurate:

- Fossils of arthropods have never been found.
- Fossils of arthropods have been found that are more than 500 million years old.
- Fossils of arthropods are only one million years old or younger
- Fossil arthropods do not resemble arthropods of today.

3. Examine the following diagram and the statements that follow.



Statements:

- 1. This animal has bilateral symmetry.**
- 2. This animal has many legs.**
- 3. This animal has an exoskeleton.**
- 4. This animal is an arthropod.**

Which of the statements are accurate?

- 1 and 3.
- 2 and 4.
- 3 and 4.
- 1, 2, 3, and 4.

4. Which of the following is a true statement about evolution?

- a. Evolution responds to organisms' needs and gives them the perfect traits for survival.
- b. Evolution can only work with the variation that is present in a lineage.
- c. Evolution cannot shape an existing trait to serve a new function.
- d. None of the statements above are true.

5. What is the definition of an evolutionary constraint?

- a. a key innovation that allows a lineage to diversify into new niches
- b. a mass extinction that wipes out more than 50% of the species alive, changing the outcome of evolution
- c. an aspect of a lineage's inherited traits that prevents it from reaching a particular evolutionary outcome
- d. when a species is forced to live in a new environment with different selective pressures