

Section 18.1 Review

Name: _____

Period: _____

1. Explain how Earth's history is divided in the geologic time scale?

2. Which Answer is correct? During the Precambrian:

A. human beings lived and thrived.

B. dinosaurs became extinct.

C. single-celled and soft-bodied organisms appeared.

D. flowering plants evolved.

3. Compare and contrast the Paleozoic and Mesozoic Eras in terms of the length of each era, landmasses, and the life forms that evolved in each. What is interesting or surprising to you in each era?

Paleozoic Era	Mesozoic Era

4. How have scientists determined the age of Earth? How old is Earth?

5. The half-life of uranium-238 is 4.5 billion years. The half-life of carbon-14, another radioactive element, is 5,730 years. You want to use absolute dating to determine the age of a rock that was about as old as Earth. Would you measure the radioactive decay of carbon-14 or uranium-238? Explain your answer.

6. If a tree has 25 rings, how old is it?

7. The figure below shows cross-sections from two trees that grew in different areas.

A. The trees were the same age when they were cut. How old are these trees?

B. Make a drawing of what a tree core would look like for each tree cross-section.

C. Write a fictional history that explains the wet and dry conditions for each tree during each year of its lifetime.


