

Earth and Life History

Name:

Rock Layer Puzzles

Period:

Use Chapter 8, Section 2 of your textbook to answer the questions below.

Rock-Layer Puzzles (p.243)

1. The principle of superposition states that _____ rock layers will be found on top of _____ rock layers if the layers have not been turned over.
2. Rock layers can be _____ by more than one event, so geologists have to figure out the _____ of events that made the rock layers.

The Law of Crosscutting Relationships

3. A fault or intrusion is _____ in relation to the body of rock it cuts through.
- _____ 4. Which of the following is NOT true of rock-layer sequences?
 - a. Rock-layer sequences often are affected by more than one event.
 - b. Rock-layer sequences often are affected by a single event.
 - c. Intrusions may squeeze into rock layers that contain an unconformity.
 - d. Rock-layer sequences help geologists understand the history of Earth.

Relative Ages of Rock Layers and Features

- _____ 5. Which of the following statements is true about Figure 6 in your textbook?
 - a. The fault formed before the igneous intrusion.
 - b. The igneous intrusion formed first.
 - c. The igneous intrusion formed last
 - d. The fault formed last.

6. In the space below, number events from *oldest* (1) to *most recent* (5).

_____ fault disturbed layers

_____ erosion removed top material, including the top of the intrusion

_____ two sedimentary layers formed after erosion

_____ igneous intrusion occurred

_____ three sedimentary layers deposited



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Order of Events

- _____ 7. What does relative dating tell geologists?
 - a. the order of events
 - b. when events took place
 - c. both the order and when events took place
 - d. what events will happen in the future
8. Relative dating is combined with information to figure out _____ dates.