

## 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 (p.243)

3. A fault or intrusion is \_\_\_\_\_ compared 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 (p.243)

- \_\_\_\_\_ 5. Look at Figure 6. Which of the following statements is true?
  - 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. Look at Figure 6. In the space below, number events from *oldest* (1) to *most recent* (5).
  - \_\_\_\_\_ a fault disturbed layers
  - \_\_\_\_\_ erosion removed top material, including the top of the intrusion
  - \_\_\_\_\_ two sedimentary layers formed after erosion
  - \_\_\_\_\_ an igneous intrusion occurred
  - \_\_\_\_\_ three sedimentary layers deposited



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### Order of Events (p.244)

- \_\_\_\_\_ 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.