

Brainpop—Glaciers

Name:

Period:

Watch the Brainpop on glaciers, then answer the questions below.

- _____ 1. What happens when layers of snow keep piling up?
- the bottom layers are compressed into ice
 - the top layers melt into water
 - the top layers are compressed into ice
 - the bottom layers melt into water

- _____ 2. When does glacial movement begin?
- when the top layers of a glacier outweigh the bottom layers
 - when an entire whole snow mound is frozen solid
 - when it gets below 0 degrees Celsius
 - when the bottom layer of snow becomes slippery and putty-like

- _____ 3. How do glaciers erode land?
- by picking up soil and rocks and depositing them in new locations
 - by picking up water from lakes and streams and carrying it to the ocean
 - by causing rain and snow in an area
 - by lowering the atmospheric pressure, causing intense windstorms

- _____ 4. Which of the following is a sign that a valley glacier has moved through an area?
- pock-marks
 - striations and grooves
 - water deposits
 - large boulders

- _____ 5. A cirque is shaped like which of the following objects?
- a shovel
 - a soda can
 - a bowl
 - a basketball

- _____ 6. Where in Africa could you find a valley glacier?
- in a crater
 - in a warm valley
 - in a frozen valley
 - on a frozen mountain peak

- _____ 7. Which of the following terms best describes how glaciers move?
- quickly
 - gradually
 - aggressively
 - rapidly

- _____ 8. How are valley glaciers different from continental glaciers?
- they require less snow and can form at warmer temperatures
 - they are only found in valleys
 - they require more snow and form at colder temperatures
 - they cannot erode a landscape

- _____ 9. When do aretes and horns form?
- when a valley glacier moves down a mountainside
 - when a continental glacier drags rocks along with it
 - when two or more glaciers erode a mountain summit
 - when the temperature gets cold enough

- _____ 10. Which of the following is a true statement about glaciers?
- they often move at a rate of 2 kilometers per hour
 - they exist on every continent except Africa
 - North America is covered by valley glaciers
 - Antarctica is covered with continental glaciers



Look at the cartoons from the video. Describe two types of geologic evidence that glaciers leave behind after they have melted.