



Which of the following is a type of mountain (alpine) glacier?

**Choose one:**

- ☐ A. ice shelf
- ☐ B. valley glacier
- ☐ C. continental shelf
- ☐ D. continental glacier

Identify the true statement.

**Choose one:**

- ☐ A. Polar glaciers move along a wet cushion of liquid at their base.
- ☐ B. Parts of a glacier all move at the same rate.
- ☐ C. The uppermost layer of ice in a glacier moves by plastic deformation; the base, by brittle deformation.
- ☐ D. Continental glaciers spread across the landscape laterally in response to their own weight.

Continental ice sheets today are found only in

**Choose one:**

- ☐ A. Alaska and Iceland.
- ☐ B. Greenland and Iceland.
- ☐ C. Antarctica and Greenland.
- ☐ D. Antarctica and Iceland.

Which of the following climate conditions would most likely allow glaciers to form?

**Choose one:**

- ☐ A. high winds that produce low chill factors
- ☐ B. a heavy snowfall in winter, coupled with relatively cool summers
- ☐ C. mild winters with a lot of snow, coupled with very hot summers
- ☐ D. temperatures below freezing for one month straight

Identify the true statement.

**Choose one:**

- ☐ A. When a glacier retreats, its ice contracts and flows back toward the glacier's point of origin.