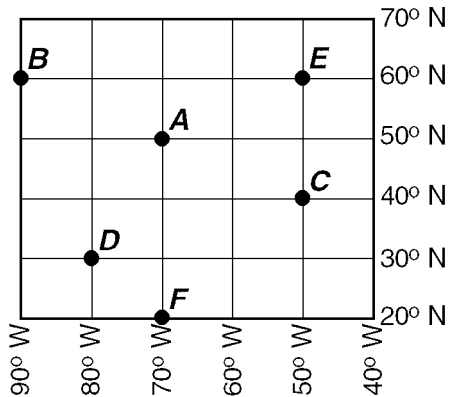


WS Latitude & Longitude

Name: _____

___ 1) The latitude and longitude system shown represents a part of the Earth's surface and its latitude-longitude coordinates. Points *A* through *F* represent locations in this area.



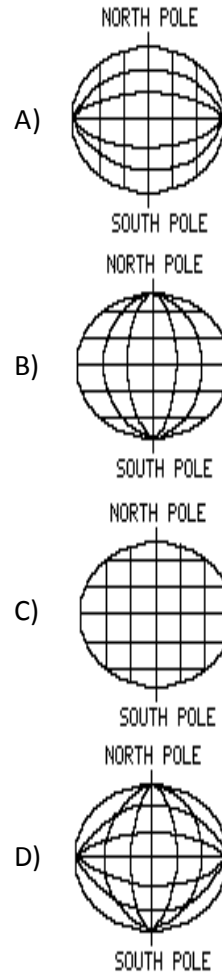
What is the compass direction from point *D* toward point *E*?

- A) northeast
- B) northwest
- C) southeast
- D) southwest

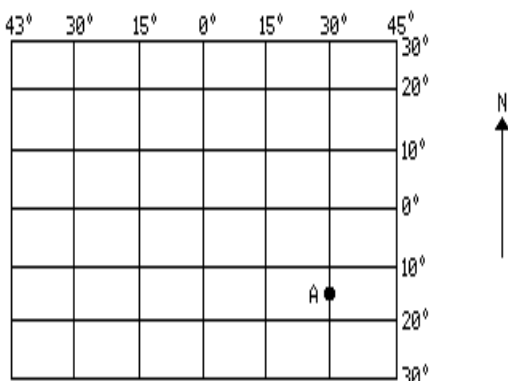
___ 2) At which latitude will Polaris be overhead?

- A) 0°
- B) 90° S.
- C) 90° N.
- D) 23½° N.

___ 3) The diagrams below represent four systems of imaginary lines that could be used to locate positions on a planet. Which system is most similar to the latitude-longitude system used on the Earth?



- ___ 4) The diagram below represents a portion of a map of the Earth's grid system. What is the approximate latitude and longitude of point A?

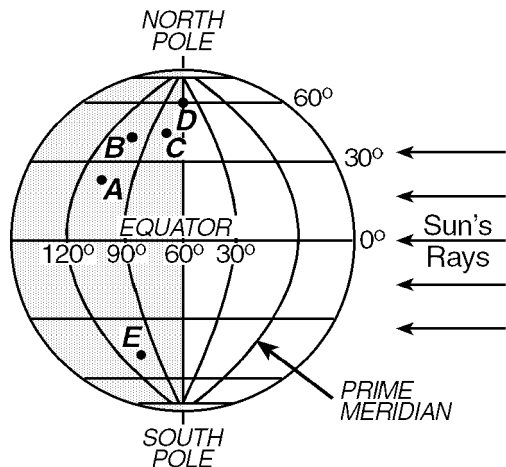


- A) 15° N. 30° E.
- B) 15° S. 30° W.
- C) 15° N. 30° W.
- D) 15° S. 30° E.

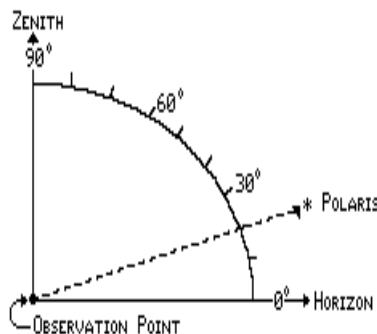
- ___ 5) As a ship crosses the Prime Meridian, the altitude of Polaris is 65°. What is the ship's location?
- A) 0° longitude, 65° South latitude
 - B) 0° longitude, 65° North latitude
 - C) 0° latitude, 65° East longitude
 - D) 0° latitude, 65° West longitude

Questions 6 and 7 refer to the following:

The diagram below represents the Earth. Some of the latitude and longitude lines have been labeled. Points A through E represent locations on the Earth's surface.

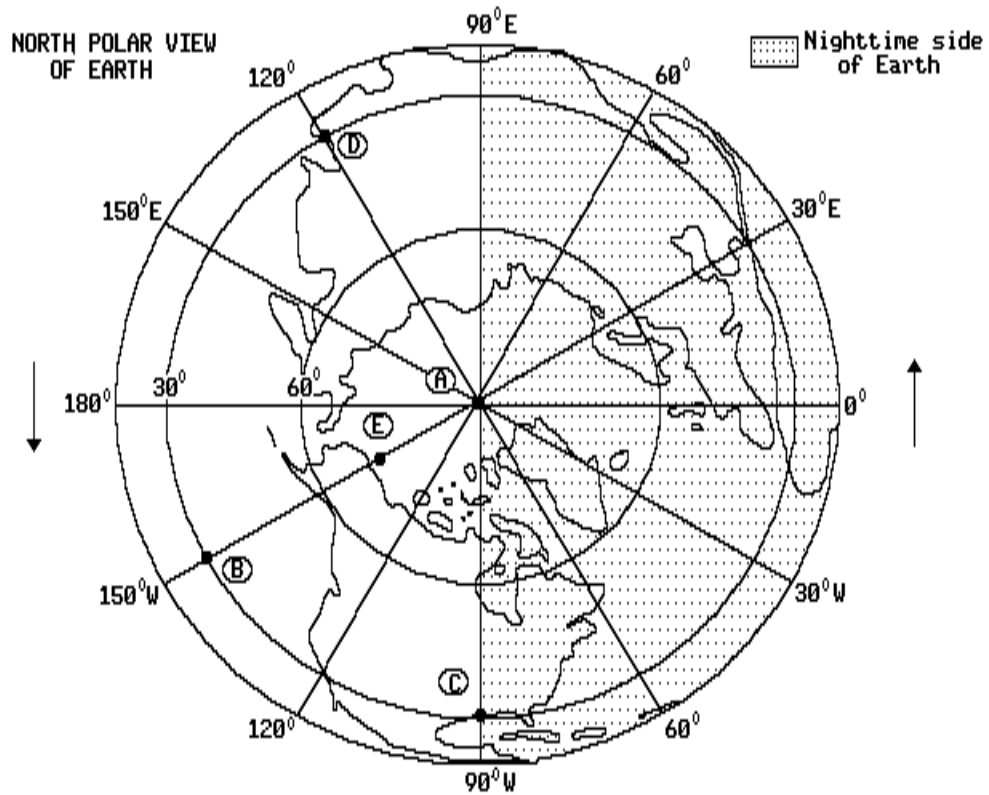


- ___ 6) What are the approximate latitude and longitude of location A?
- A) 105° S, 25° E
 - B) 25° N, 105° E
 - C) 25° N, 105° W
 - D) 105° N, 25° W
- ___ 7) The latitude and longitude of which location are *closest* to those of New York State?
- A) A
 - B) B
 - C) C
 - D) D
- ___ 8) How are latitude and longitude lines drawn on a globe of the Earth?
- A) Latitude lines are parallel and longitude lines meet at the Equator.
 - B) Latitude lines are parallel and longitude lines meet at the poles.
 - C) Longitude lines are parallel and latitude lines meet at the Equator.
 - D) Longitude lines are parallel and latitude lines meet at the poles.
- ___ 9) A navigator aboard ship measures the altitude of Polaris as shown in the diagram. What is the latitude of the ship's position at the time the measurement was taken?



- A) 20° North
 - B) 40° North
 - C) 70° North
 - D) 10° North
- ___ 10) The latitude of a point in the Northern Hemisphere may be determined by measuring the
- A) apparent diameter of Polaris
 - B) distance of the Sun
 - C) altitude of Polaris
 - D) apparent diameter of the Sun

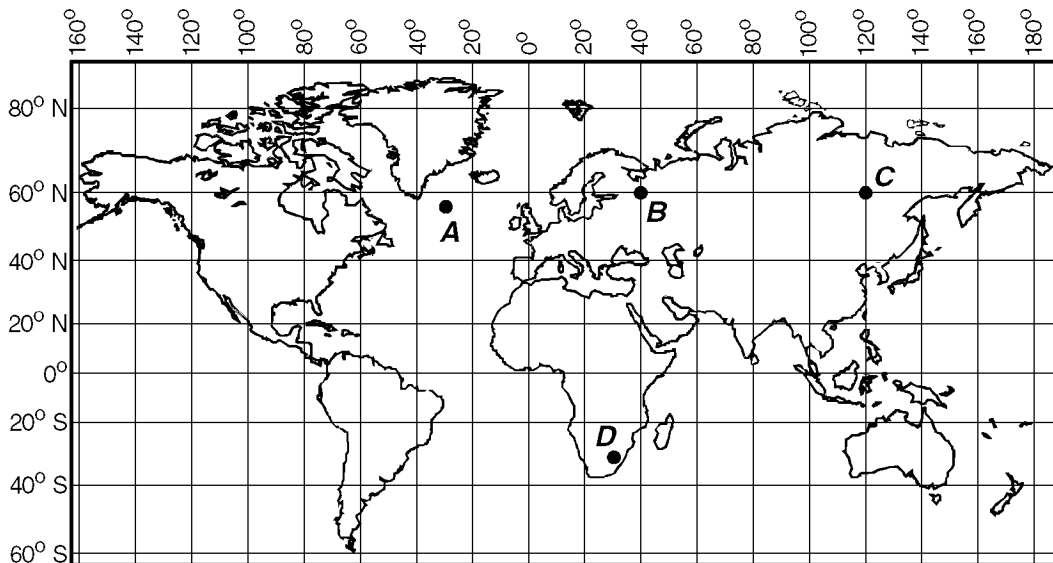
___ 11) On the map below, points *A* through *E* are points on the Earth's surface.



Which two points have the same latitude?

- A) *A* and *C* B) *B* and *C* C) *C* and *E* D) *B* and *E*

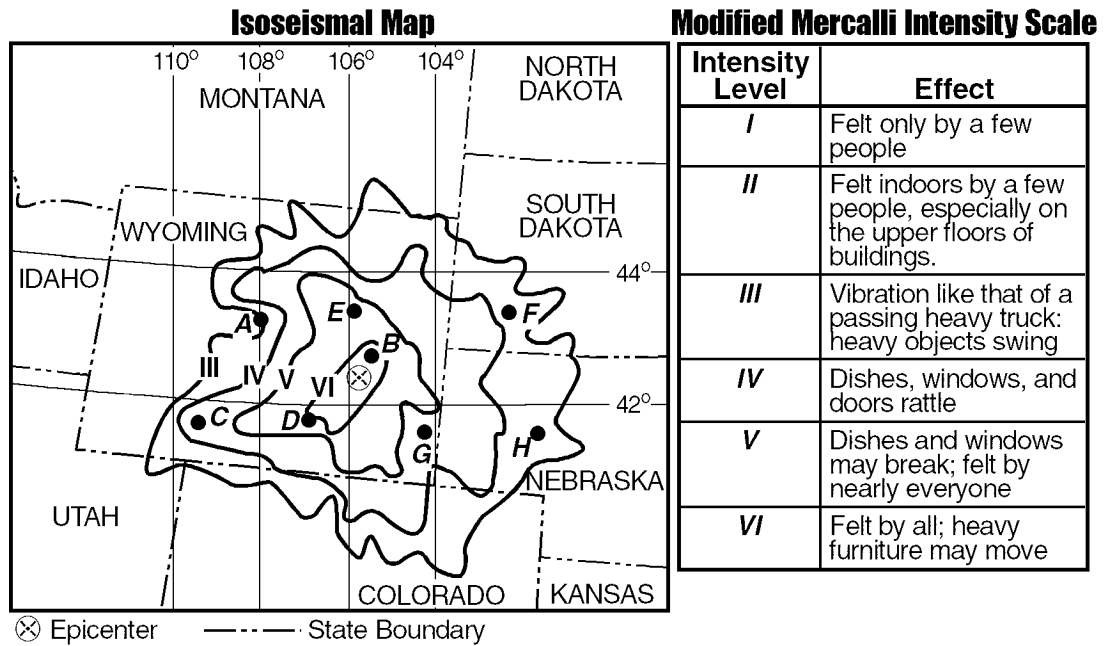
___ 12) The world map below shows latitude and longitude. Letters *A*, *B*, *C*, and *D* represent locations on the map.



For which location are the correct latitude and longitude given?

- A) *A*: 45°S 30°W C) *C*: 60°N 120°E
 B) *B*: 40°N 60°W D) *D*: 30°S 30°W

- ___ 15) The isolines on the isoseismal map below connect points of equal earthquake intensity. Letters A through H represent locations near an earthquake epicenter. The *Modified Mercalli Intensity Scale* below measures the strength of an earthquake in terms of the effects it produces.



What is the approximate latitude and longitude of the epicenter?

- | | |
|-------------------------|-------------------------|
| A) 42° 30' N 105° 45' W | C) 106° 45' N 42° 30' W |
| B) 107° 10' N 43° 30' W | D) 43° 30' N 106° 10' W |