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# **Mapping Our World**

# Section 2.1 Latitude and Longitude

Using your notes, look up about latitude and longitude.

Match the definition in Column A with the term in Column B.

# Column A 1. Science ofmapmaking 2. Imaginary line that separates Earth into northern and southernhemispheres 3. Distance in degrees north or south of the equator 4. Distance in degrees east or west of the prime meridian 5. Reference point for longitude that passes through Greenwich, England, and represents0° Column B A) Prime Meridian B) Longitude C) Cartography D) Equator E) Latitude

In the space at the left, circle "A"; if the statement is true; if the statement is false, circle "B" the italicized word or phrase to make it true.

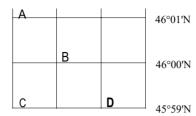
rase to mar	ic it true.	
A	В	6) The equator is located halfway between thenorth pole and the prime meridian
A	В	7) Lines of latitude run parallel to theequator
A	В	8) The equator is at 180°latitude.
A	В	9) The south pole is at 90° southlongitude.
A	В	10) One degree of latitude is equivalent to about 111km on Earth's surface
A	В	11) Each degree of latitude is divided into 360 minutes
A	В	12) Lines of longitude are also called meridians.
A	В	13) The prime meridian is the reference line forlatitude.
A	В	14) Points east of the prime meridian are located between 0° and 180° east longitude.
A	В	15) Lines of longitude are semicircles that extend from the north pole to the southpole.
A	В	16) Each degree of longitude corresponds to about 111km at the north pole.

17) All meridians converge at the poles

# SECTION 2.1 Latitude and Longitude, continued

 ${\it Using your notes, review the section about locating places with coordinates.}$ 

Use the map grid to answer the following questions.



108°46'W 108°45'W 108°44'W 108°43'W

- **18.** What is the latitude of Point A?
  - a. 46°01'N
  - b. 108°46'W
  - c. 108°44'W
  - d. 45°59'N
- 19. Which two points have the same latitude What is that latitude?
  - a. Points A & C with Latitude 108°46'W
  - b. Points C & D with Latitude 45°59'N
  - c. Points B & C with Latitude 46°00'N
  - d. Points A & D with Latitude 108°44'W
- 20. What is the longitude of point B?
  - a. 46°00'N
  - b. 108°45'W
  - c. Neither A nor B is correct
- 21. Which two points have the same longitude? What is thatlongitude?
  - a. Points A & C with Latitude 108°46'W
  - b. Points C & D with Latitude 45°59'N
  - c. Points B & C with Latitude 46°00'N
  - d. Points A & D with Latitude 108°44'W
- 22. What are the coordinates of point C?
  - a. 45°59'N; 108°46'W
  - b. 108°44'W: 45°59'N
  - c. Neither A nor B is correct

Using your notes, review the section about time zones.

Circle the letter of the choice that best completes the statement or answers the question.

23. Into how many time zones is Earthdivided?

a. 12

c. 60d. 360

**24.** Approximately how wide is each timezone?

a. 15°

c. 60°

b. 30°

d. 180°

- 25. The International Date Line is located atthe
  - a. 0° lineoflatitude
  - **b.** 180° line oflatitude

- $c.\ 0^\circ$ meridian
- d. 180° meridian
- 26. When you travel east across the International Date Line, you
  - a. advance your calendar oneday
  - b. advance your calendar 12hours

- c. move your calendar back oneday
- d. move your calendar back 12hours

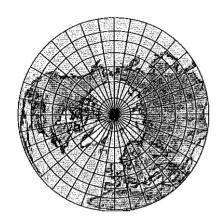
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#### Section 2.2 Types of Maps

Using your notes, review the section about Mercator, conic, and gnomonic projections.

SELECT which mapprojection is (A) Conic, (B) Gnomonic or (C) Mercator.

Picture #27



Picture #28



Picture #29

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- **27.** (A) Conic, (B) Gnomonic or (C) Mercator
- 28. (A) Conic, (B) Gnomonic or (C) Mercator
- **29.** (A) Conic, (B) Gnomonic or (C) Mercator

SELECT either (A) Mercator(B) Conic, or (C) Gnomonic for each description.

- A) Mercator (B) Conic (C) Gnomonic
- 30. Used as road and weathermaps
- A) Mercator (B) Conic (C) Gnomonic
- 31. Has parallel lines of latitude andlongitude
- A) Mercator (B) Conic (C) Gnomonic
- 32. Made by projecting points and lines from a globe onto a piece ofpaper that touches the globe at a singlepoint
- A) Mercator (B) Conic (C) Gnomonic
- 33. Distorts direction and distance betweenlandmasses
- A) Mercator (B) Conic (C) Gnomonic
- 34. Exaggerates the areas landmasses near the poles, but correctly shows their shape
- A) Mercator (B) Conic (C) Gnomonic
- 35. Made by projecting points and lines from a globe onto acone
- A) Mercator (B) Conic (C) Gnomonic
- 36. Has very little distortion in the areas or shapes of landmasses that fall along a certain line of latitude
- A) Mercator (B) Conic (C) Gnomonic
- 37. Used by navigators to plot straight routes for planes and ships

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# SECTION 2.2 Types of Maps, continued

*In your textbook, read about topographic maps and contour lines.*Use each of the terms below just once to complete the passage.

A) contourinterval

<u>C)</u> hachures

**B)** contourlines

D)	ind	exc	ont	ours
므		CAC	0	04.

E) topographic maps

Maps that show changes in elevation of Earth's surface are called (38) . On this kind of map, points of equal elevation are connected by (39) . The difference in elevation between two side-by-side contour lines is called the (40) . Contour lines whose elevation is marked by a number on the map are known as (41) . Contour lines that indicate depressions have (42) ,or short lines at right angles to the contour lines.

The contour interval on the map below is 20 m.

*Use the contour map to answer the following questions.* 

- 43) Which of the labeled points on the map has the highest elevation?
  - a) A
  - b) B
  - c) C
  - d) D
- 44) What is the elevation of the highest labeled point?
  - a) 400 m
  - b) 480 m
  - c) 500 m
  - d) 520 m
- 45) Which of the labeled points on the map has the lowest elevation?
  - a) A
  - b) B
  - c) C
  - d) D
  - e) E
- 46) What is the elevation of the lowest labeled point?
  - a) 320 m
  - b) 340 m
  - c) 400 m
  - d) 500 m





## SECTION 2.2 Types of Maps, continued

Using your notes, read about map legends and map scales.
Use each of the terms below to complete the following statements.

A. fractionalscale

C. maplegend

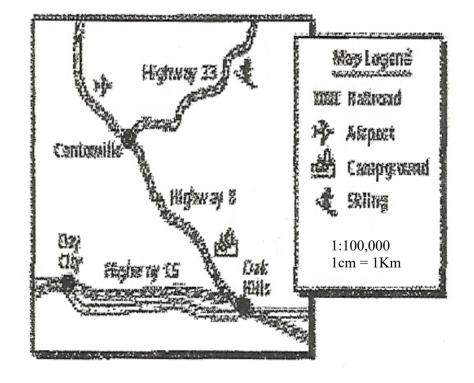
E. verbal scale

B. graphicscale

- D. mapscale
- 47) A explains what the symbols on a maprepresent.
- 48) To measure distances on a map, you need to use the of which there are three types.
- 49) A expresses distance as a statement, such as one centimeter is equal to onekilometer.
- 50) A consists of a line that represents a certain unit of distance, such as 5km.
- 51) A expresses distance as a ratio, such as 1:63,500.

The map and map legen dbelow have been reduced to fit this space. Use the map and the map legen dto answer the following questions.

- 52) Which city on the map is closest to acampground?
  - a) Centerville
  - b) Day City
  - c) Oak Hills
- 53) Which highway leads to a skiing area?
  - a) Highway 8
  - b) Highway 15
  - c) Highway 33
- 54) Which city is NOT connected by railroad?
  - a) Centerville
  - b) Day City
  - c) Oak Hills
- 55) Look at the verbal scale. If the distance from Centerville to Oak Hills is 10 km, how far apart should these cities be on themap?
  - a) 1 Km
  - b) 10,000,000 cm
  - c) 10 cm
  - d) 0.000001 cm



Write the name of the remote sensing device-Landsat, *Topex/Poseidon*, or GPS- for each description.

ocean floor.

62) Usesasystemof27satellites thattransmitmicrowaves

65) Creates images that show surface features as different colors

66) Used for ship and airplanenavigation

67) Picks upbulgesanddepressionsinoceanwater

63) Uses radar to map features, such as mountains and valleys, that are on the

64) Uses a handheld receiver to help people determine their exact position on

A) Landsat B) Topex/Poseidon C) GPS

A) Landsat B) Topex/Poseidon C) GPS