Name Class Date

CHAPTER < 2

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STUDY GUIDE

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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	ColumnB
1. Science of mapmaking	
2. Imaginary line that separates Earth into northern and	A) Prime Meridian
southern hemispheres	B) Longitude
3. Distance in degrees north or south of the equator	C) Cartography
4. Distance in degrees east or west of the prime	D) Equator
meridian	E) Latitude
5. Reference point for longitude that passes through	
Greenwich, England, and represents 0°	

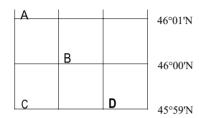
In the space at the left, circle "A"; if the statement is true; if the statement is false, circle "B" the *italicized word* or phrase to make it true.

_		
A	В	6) The equator is located halfway between the north pole and the prime meridian
A	В	7) Lines of <i>latitude</i> run parallel to the equator
A	В	8) The equator is at 180° latitude.
A	В	9) The south pole is at 90° south <i>longitude</i> .
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 for <i>latitude</i> .
A	В	14) Points east of the prime meridian are located between θ° and $18\theta^{\circ}$ east longitude.
A	В	15) Lines of longitude are semicircles that extend from the north pole to the south pole.
A	В	16) Each degree of longitude corresponds to about 111km at the north pole.
A	В	17) All meridians converge at the <i>poles</i>

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 Earth divided?
 - a. 12b. 24

- c. 60
- d 360

- 24. Approximately how wide is each time zone?
 - a. 15°

c. 60°

b. 30°

d. 180°

- 25. The International Date Line is located at the
 - **a.** 0° line of latitude

c. 0°meridian

b. 180° line of latitude

- d. 180° meridian
- 26. When you travel east across the International Date Line, you
 - **a.** advance your calendar one day
 - b. advance your calendar 12 hours

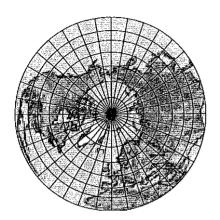
- c. move your calendar back one day
- d. move your calendar back 12 hours

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



- **27.** (A) Conic, (B) Gnomonic (C) Mercator
- 28. (A) Conic, (B) Gnomonic (C) *Mercator*
- 29. (A) Conic, (B) Gnomonic (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 weather maps
- A) Mercator (B) Conic (C) Gnomonic
- 31. Has parallel lines of latitude and longitude
- A) Mercator (B) Conic (C) Gnomonic
- 32. Made by projecting points and lines from a globe onto a piece of paper that touches the globe at a single point
- A) Mercator (B) Conic (C) Gnomonic
- 33. Distorts direction and distance between landmasses
- 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) Contour interval

C) hachures

B) Contour lines

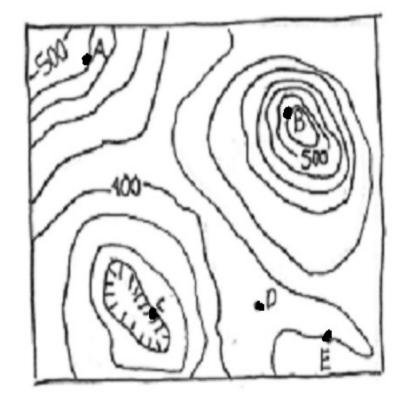
D) index contours

E) topographic maps

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. Fractional scale

C. Map legend

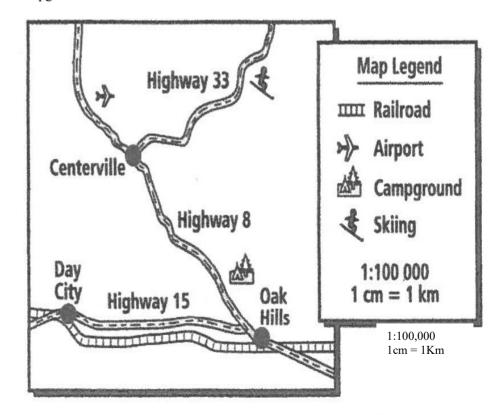
E. verbal scale

B. Graphic scale

- D. Map scale
- 47) A explains what the symbols on a map represent.
- 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 one kilometer.
- 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 legend below have been reduced to fit this space. Use the map and the map legend to answer the following questions.

- 52) Which city on the map is closest to a campground?
 - 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 the map?
 - a) 1 Km
 - b) 10,000,000 cm
 - c) 10 cm
 - d) 0.000001 cm



Earth

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

65) Creates images that show surface features as different colors

66) Used for ship and airplane navigation

67) Picks up bulges and depressions in ocean water

A) Landsat B) Topex/Poseidon C) GPS

A) Landsat B) Topex/Poseidon C) GPS

A) Landsat B) Topex/Poseidon C) GPS

A) Landsat B) Topex/Poseidon C) GPS