

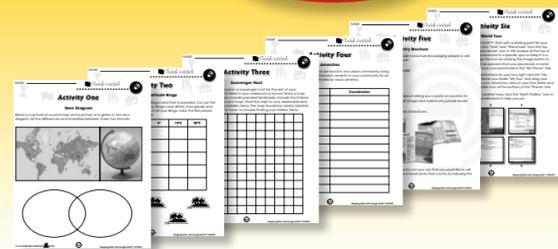


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# Latitude, Longitude and Time Zones

1. Find the locations of the following objects by using the grid system below.



- a) What object is located at B4? \_\_\_\_\_
- b) What object is located at A1? \_\_\_\_\_
- c) What object is located at C4? \_\_\_\_\_
- d) What object is located at B2? \_\_\_\_\_

2. Circle the word **TRUE** if the statement is TRUE or circle the word **FALSE** if it is FALSE.

- a) Longitude and latitude lines are imaginary.  
TRUE      FALSE
- b) Longitude lines run from East to West.  
TRUE      FALSE
- c) Latitude lines move from East to West.  
TRUE      FALSE
- d) The Equator is an important line of latitude.  
TRUE      FALSE



# Latitude, Longitude and Time Zones

In order that people could accurately explain where things were in the world, it was necessary to agree upon the location of an imaginary grid. After much debate, it was agreed that the **Prime Meridian**, 0 degrees longitude, would be at Greenwich, England.

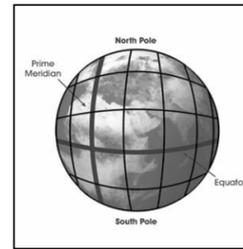
From that point, the Earth is divided by 360 degrees, which make a full circle of imaginary lines. The Earth is divided North to South by 180 degrees. The **Equator**, 0 degrees latitude, runs around the middle of the Earth, and there are 90 degrees North and 90 degrees South.

By giving **longitude** and **latitude coordinates**, it is possible to state where anything is located on the surface of the Earth.

### Time Zones

The Earth rotates around the Sun and spins on its **axis** so different parts of the Earth face the Sun at different times. Everyone agreed that when the Sun is straight up in the sky, it is noon. Different parts of the Earth have the Sun straight up in the sky at different times. The Earth is a circle

with 360 degrees. These degrees were divided by 24 (one hour for the 24 hours in a day). 360 degrees divided by 24 equals 15 degrees, which equals one hour. So, when it is noon at 0 degrees it is 1:00 pm at 15 degrees East and 2:00 pm at 30 degrees East.



### Mapping Hint:

Remember longitude lines run long ways, from top to bottom, and latitude lines run from side to side, or East to West.



### Explore with Google Earth™

Type your hometown into the search field. Click on "View" and "Toolbar" in the top navigation bar. Click the Sun image in the toolbar at the top of your screen and move the scale back and forth. What do you notice about the Sun's movement across the surface of the Earth as you adjust the time of day?



# Latitude, Longitude and Time Zones

1. Circle the word **TRUE** if the statement is TRUE or circle the word **FALSE** if it is FALSE.

- a) A grid is a way to locate places on a map.  
TRUE      FALSE
- b) A grid is a series of squiggly lines, which explain height or elevation.  
TRUE      FALSE
- c) Latitude and longitude lines make a type of grid.  
TRUE      FALSE
- d) The Equator is located at 0 degrees longitude.  
TRUE      FALSE
- e) The Prime Meridian is an important line of longitude.  
TRUE      FALSE
- f) The Equator is located at 0 degrees latitude.  
TRUE      FALSE
- g) The Earth rotates around the Sun and on its axis.  
TRUE      FALSE
- h) Time zones give the time at different regions of the Earth.  
TRUE      FALSE
- i) Longitude lines run from East to West.  
TRUE      FALSE
- j) Lines of latitude run from top to bottom.  
TRUE      FALSE



# Latitude, Longitude and Time Zones

Answer each question with a complete sentence.

- 2. Imagine you are an immigrant to the United States and you want to explain to someone how to get from New York City to your hometown. Tell them how to get there.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 3. Why would it be easier to use longitude and latitude to explain where you are?  
\_\_\_\_\_  
\_\_\_\_\_
- 4. How do grids help you find places on a map?  
\_\_\_\_\_  
\_\_\_\_\_

### Research

5. Use an atlas, to find the longitude and latitude coordinates of 10 major North American cities.

City	Coordinates

NAME: \_\_\_\_\_

Map Activity



# Map the World

Label the 7 continents and 4 oceans on the world map below. Label the United States, Canada, Mexico and Greenland.



**HANDS-ON ACTIVITIES**

After You Read

NAME: \_\_\_\_\_



# Crossword Puzzle!



### Across

- 3. Maps that can be used to compare different regions and compare information, known as data.
- 4. If contour lines are close together on a map, it means the hill is \_\_\_\_\_.
- 6. A tool that shows what the distance on the map equals on the ground.
- 8. 0 degrees longitude.
- 11. The person who wrote the map.
- 12. The name of the map.
- 13. The elevation half way between low and high tide.

### Down

- 1. An imaginary line on the Earth, which travels horizontally around the globe.
- 2. A diagram on a map, which shows direction.
- 5. The main directions are called \_\_\_\_\_ directions.
- 7. A group of people who share common interests, characteristics and experiences.
- 9. Urban communities have more of these than rural communities. They include hospitals and libraries.
- 10. The mnemonic that helps you remember, everything you need to place on a map.



Word List			
amenities	community	prime meridian	steep
author	compass rose	scale	title
cardinal	latitude	sea level	totalsigs
choropleth			

After You Read

NAME: \_\_\_\_\_



# Comprehension Quiz



42

### Part A

- 1. What is an instrument, which shows the direction of travel? 1
- 2. What is a tool that shows what the distance on the map equals on the ground? 1
- 3. If the scale is 1 inch on the map = 1 mile on the ground. What would 5 inches on the map equal on the ground? 1
- 4. If the scale is 1 cm on the map = 100 km on the ground. What would 8 cm on the map equal on the ground? 1
- 5. What does the mnemonic TODALSIGS stand for? 9
- 6. If it is noon in New York, what time is it in Florida? 1

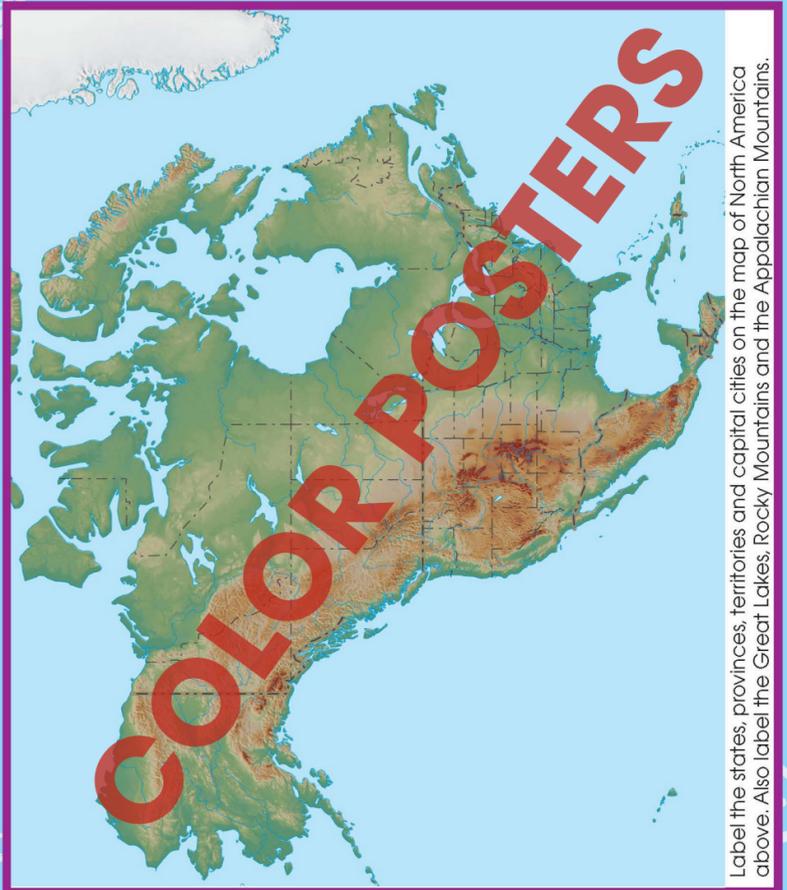
### Part B

- 1. The Equator is located at 0 degrees latitude. **TRUE/FALSE** 1
- 2. Lines of latitude run from top to bottom. **TRUE/FALSE** 1
- 3. On the map of the world, label the 7 continents, 4 oceans, Greenland, the United States, and Canada. 14



SUBTOTAL: /30

# North America



Label the states, provinces, territories and capital cities on the map of North America above. Also label the Great Lakes, Rocky Mountains and the Appalachian Mountains.

**COLOR POSTERS**



# Mapping Geographical Features

1. Put a check mark (✓) next to the answer that is most correct.

a) What is a desert?

- A A dry, often sandy region of little rainfall and little vegetation.
- B A region of permanent cold that is largely absent of life.
- C An area covered with trees.
- D All of the above.

b) What is a mountain?

- A A natural elevation of the Earth's surface with generally steep sides, and taller than a hill.
- B A natural elevation over 984 feet/300 meters tall.
- C A natural elevation shorter than a hill.
- D Both A and B.

c) What is a valley?

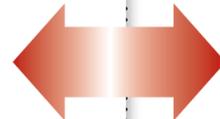
- A A lowland between ranges of mountains or hills.
- B A barren area.
- C A dry sandy region.
- D None of the above.

d) What is a lake?

- A A large body of water, that is separated by continents.
- B An inland body of fresh water surrounded by land.
- C An inland body of salt water surrounded by land.
- D Both B and C.

e) What is sea level?

- A The distance you can see.
- B The height of the sea at low tide.
- C The height of the sea at high tide.
- D The height that is the halfway point between high and low tides.



1.

a) A

b) D

c) A

d) D

e) D

18

1.

1 D

2 G

3 F

4 B

5 C

6 A

7 E

8 H

9 I

20

2.

Answers may vary. When you want detailed information about a small area.

3.

Answers may vary. When you want information about larger areas such as countries or states.

4.

Answers may vary. A hilly area.

5.

Answers may vary. A road map.

6.

Answers may vary. You were near a body of water.

7.

Answers may vary. Yes. A black line would indicate a road.

8.

Answers may vary.

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Map Activity

Answers may vary. Each map should be of a country and should indicate a mountain, a forest, a desert area, one body of water, symbols, and a legend.



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EASY MARKING ANSWER KEY