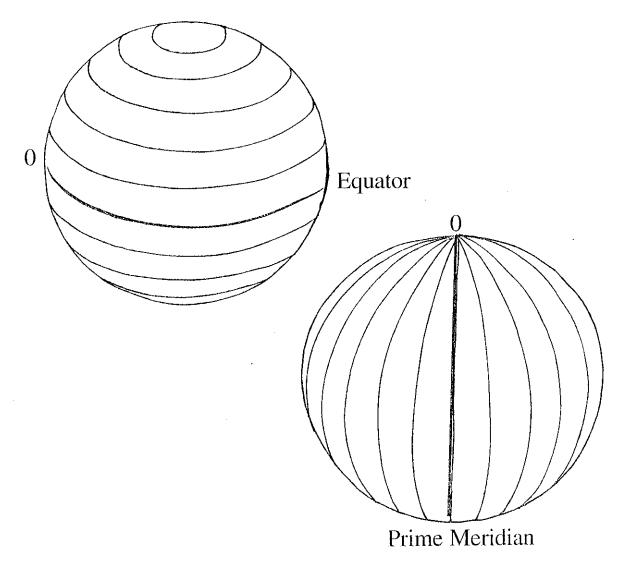
## Lines on a Map and Globe

The Equator is not the only line on a map or globe. There are other imaginary lines that help people find places.

Some of these lines go in the same direction as the Equator. These lines are called **latitude**. They tell how far north or south you are. You count from the zero line. It is the Equator.

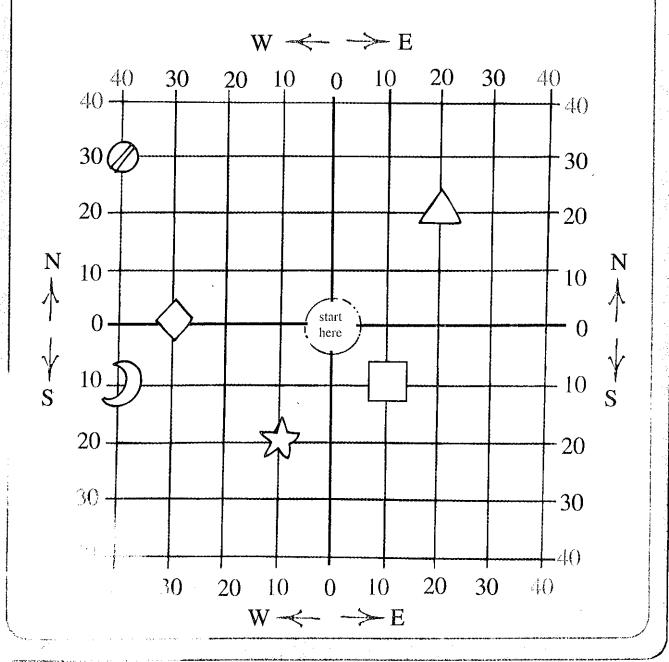


Some of these lines go from the north pole to the south pole. These lines are called **longitude**. They tell how far west and east your are. You count from the zero line. It is called the **Prime Meridian**.

## Using Longitude and Latitude

Find the pictures. Color them.

red - 10 west and 20 south green - 20 east and 20 north blue - 40 west and 30 north purple - east 10 and 10 south yellow - west 40 and 10 south black - west 30



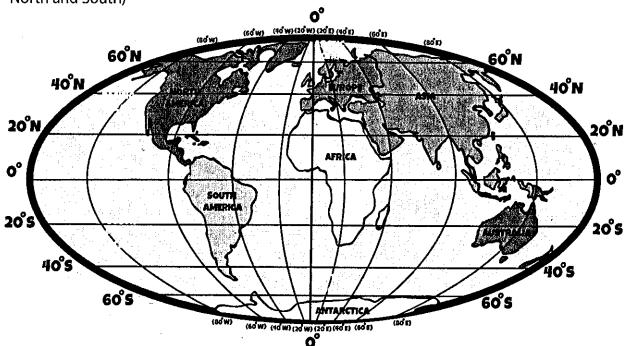
# WHAT IS LATITUDE AND LONGITUDE, AND HOW DO YOU USE IT?

Some of this journey will take place over water. To navigate the ocean, you will have to understand latitude and longitude coordinates.

What is latitude and longitude?

**LATITUDE:** Lines that go around the globe (they go by the directions East and West)

**LONGITUDE:** Lines that point from top to bottom of the globe (they go by the directions North and South)



**EXAMPLe:** What continent is at 20° South and 40° West? (South America)

1. What continent is 40° North and 20° East?

2. What ocean is found at 20° South and 60° East? \_\_\_\_\_

3. What continent is at 60° South and 60° East?

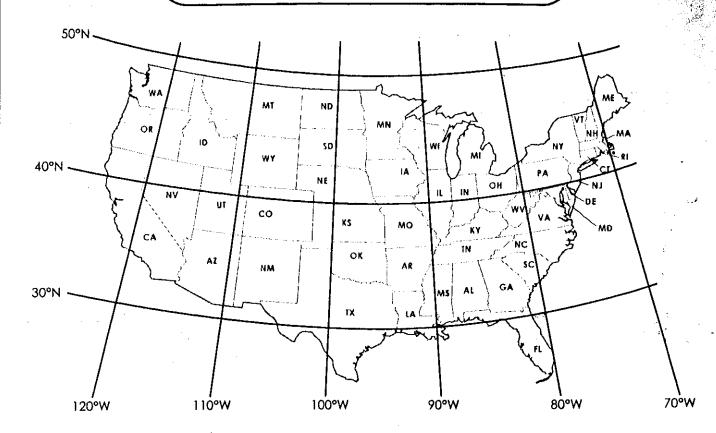
4. What ocean is at 40° South and 80° West?

5. What continent is at 40° North and 80° East?



Name: \_\_\_\_\_

#### Latitude and Longitude



Write the name of the state found at the given latitude and longitude coordinates.

- 1. 30°N latitude, 100°W longitude
- 2. 40°N latitude, 110°W longitude
- 3. 40°N latitude, 90°W longitude
- 4. 40°N latitude, 120°W longitude
- 5. 30°N latitude, 90°W longitude
- 6. 40°N latitude, 80°W longitude

## Battleship Directions

- 1. Each team member will place five ships on the intersecting spots on the grid. Each team will then have 10 ships on their grid.
- 2. The five ships to be used are:
  - Battleship = 5 pts, Aircraft Carrier = 4 pts, Cruiser = 3 pts, Destroyer = 2 pts, and P.T. Boat = 1 pt
- 3. After all ships have been placed on the grid, a class member selected by the teacher will state an intersection by giving the latitude and longitude of the coordinate.
- 4. When the intersection is called off and your ship is there, you must consider it a direct hit by the enemy and your vessel is sunk.
- 5. After all of the student's have finished naming coordinates and the war is over, total the number of points left on your grid based on ships not sunk. The team with the most points wins.

