

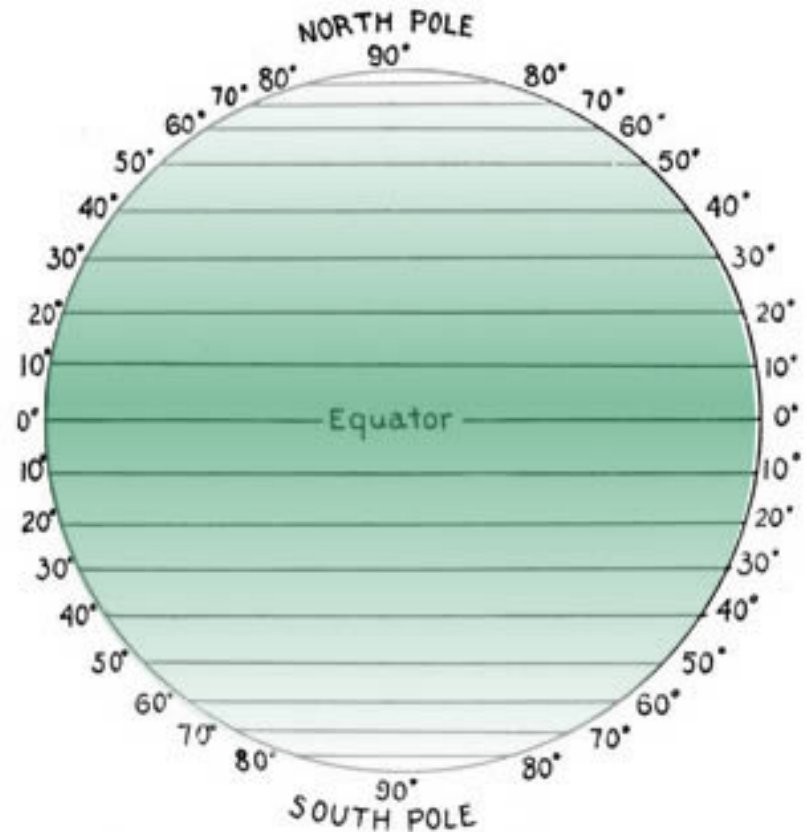
# Latitude and Longitude

Finding your location throughout  
the world!

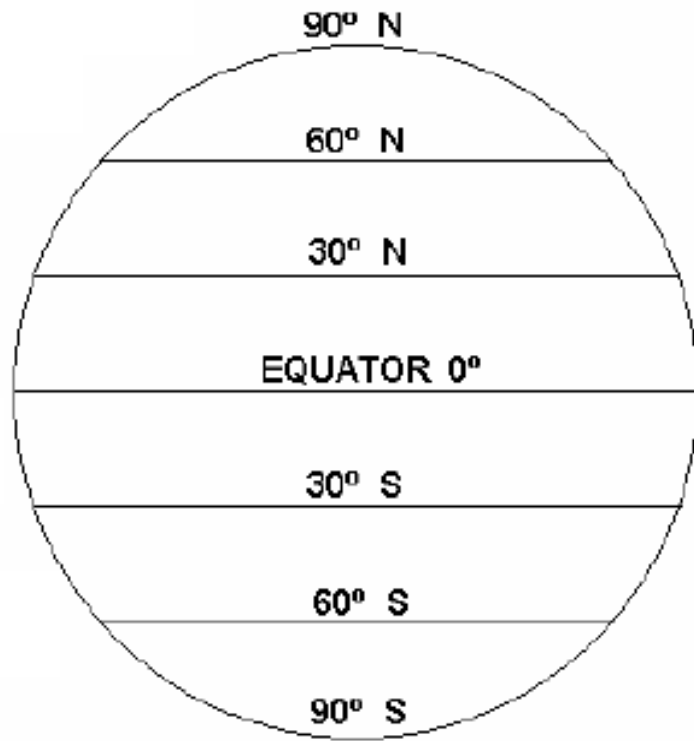


# What is Latitude?

- Latitude is defined as a measurement of distance in degrees north and south of the equator
- The word latitude is derived from the Latin word, “latus”, meaning “wide.”



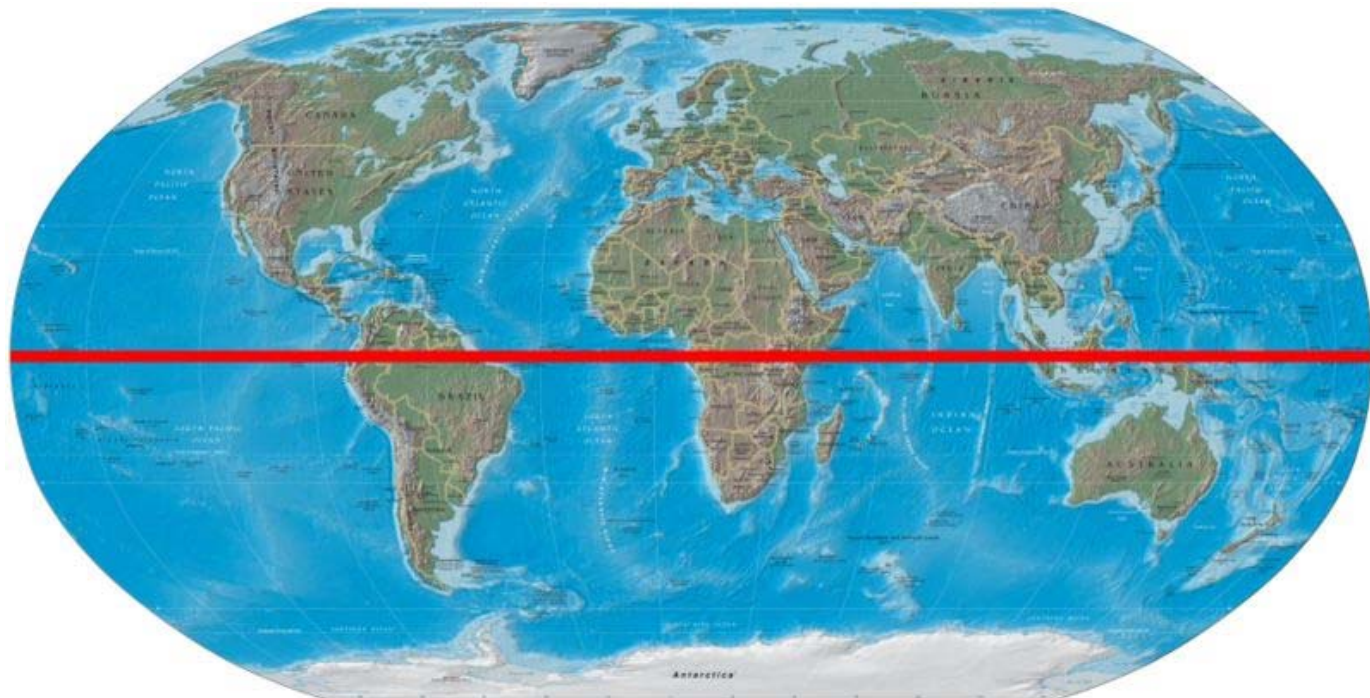
# What is Latitude



- There are 90 degrees of latitude from the equator to each of the poles, north and south.
- Latitude lines are parallel, that is they are the same distance apart
- These lines are sometimes referred to as parallels.

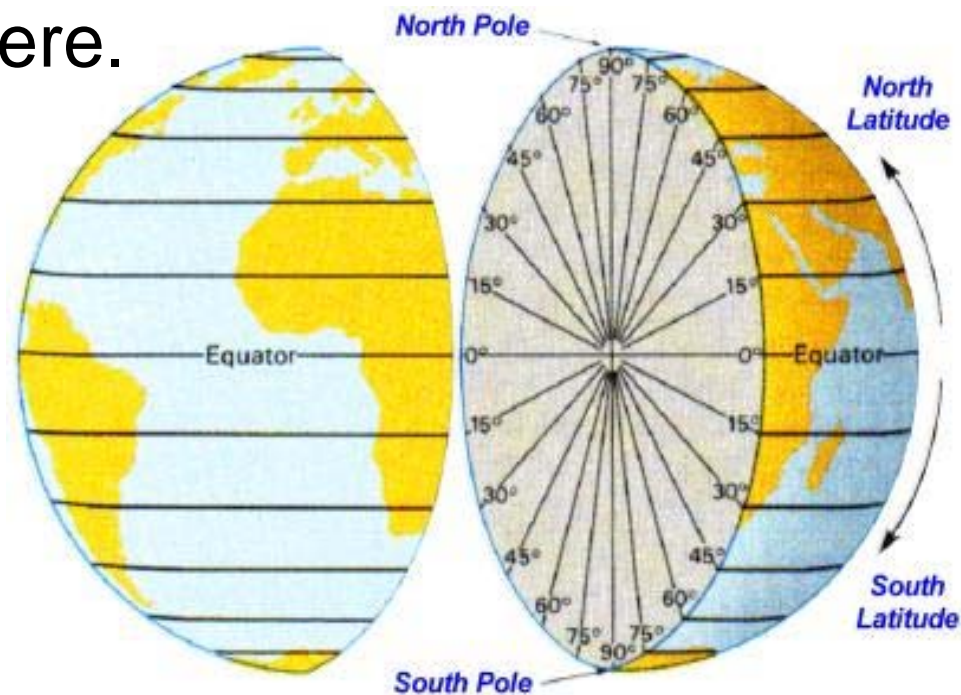
# The Equator

- The equator is the longest of all lines of latitude
- It divides the earth in half and is measured as  $0^{\circ}$  (Zero degrees).



# North and South Latitudes

- Positions on latitude lines above the equator are called “north” and are in the northern hemisphere.
- Positions on latitude lines below the equator are called “south” and are in the southern hemisphere.



Let's take a quiz

Pull out your white boards



Lines of latitude are

Parallel \_\_\_\_\_ to the equator

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There are 90 degrees  
of latitude north and south of the  
equator.



The equator is 0  
degrees.

Another name for latitude lines  
is Parallels.

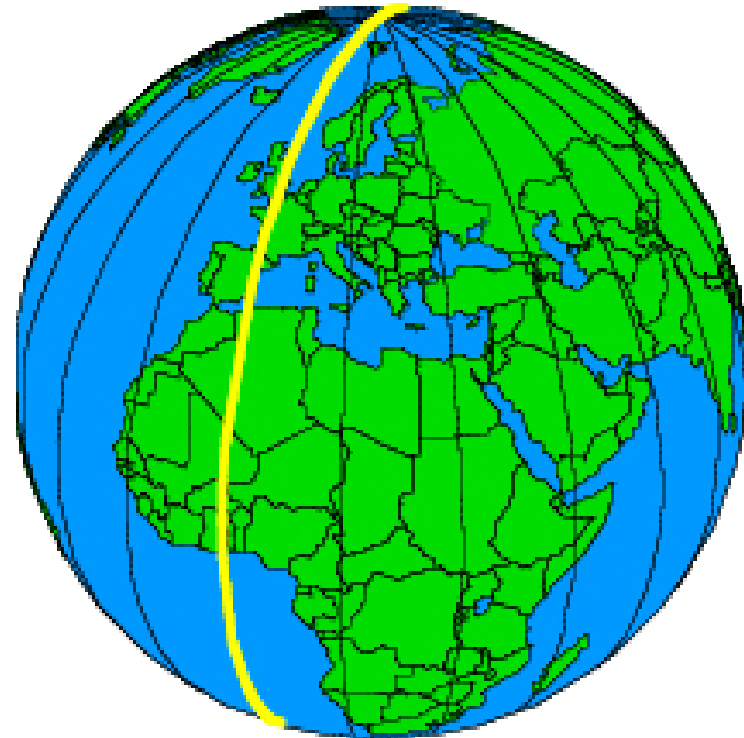
The equator divides the earth  
into 2 equal parts.

**Great Job!!!**

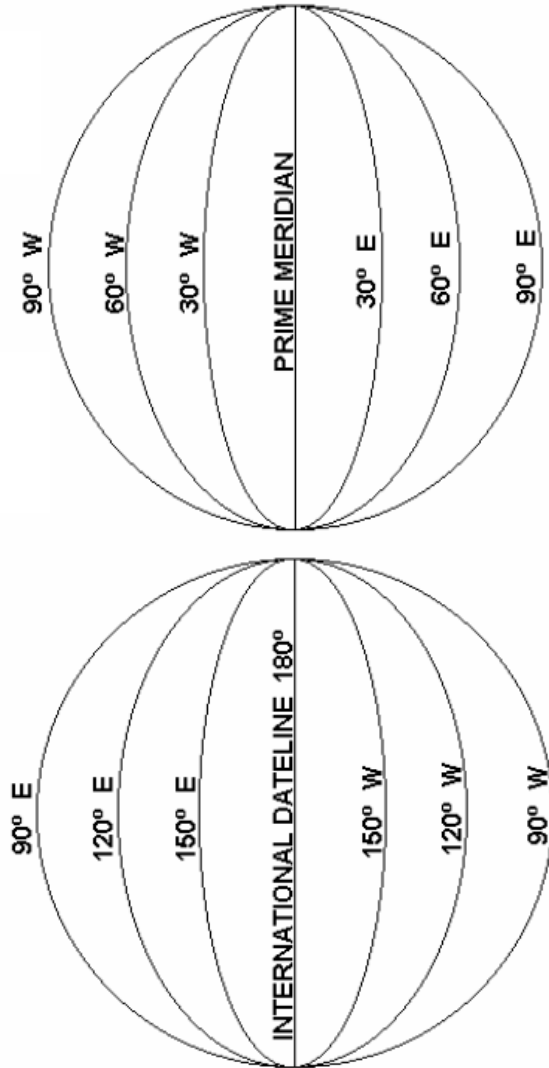
**Lets Continue!**

# What is Longitude?

- Longitude is defined as measurement of distance in degrees east or west of the prime meridian.
- The word longitude is derived from the Latin word, “longus”, meaning “length.”



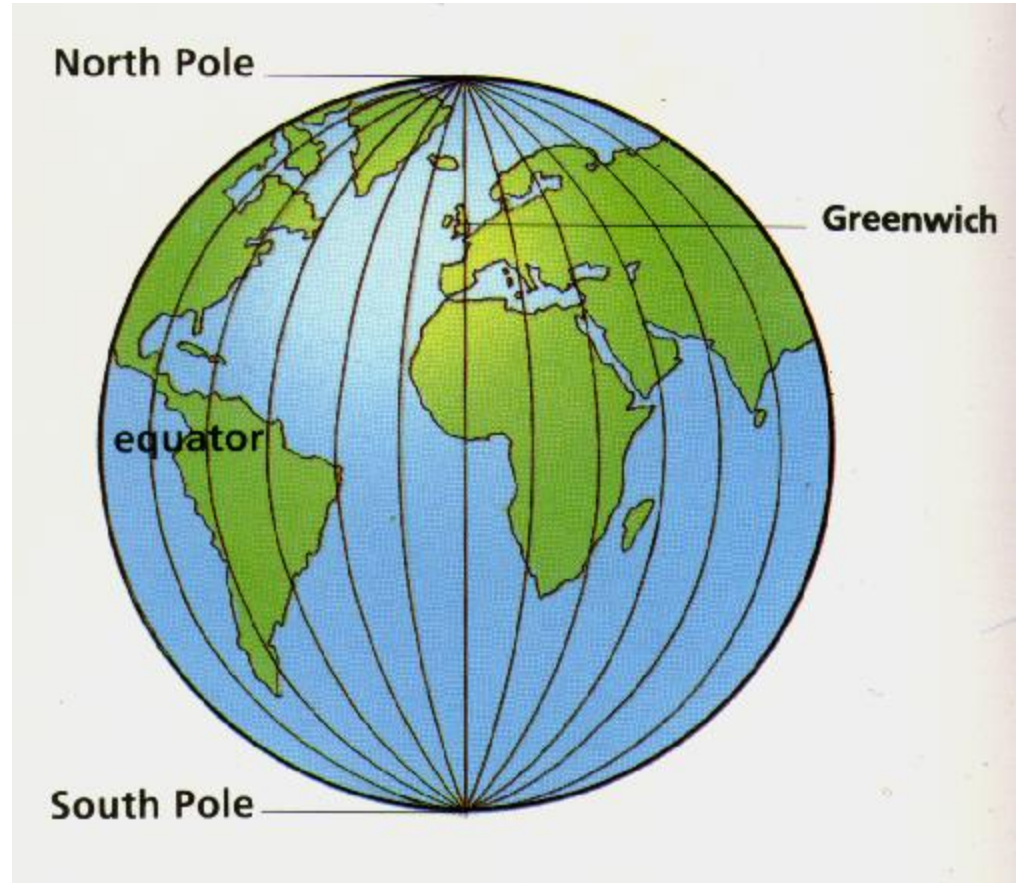
# What is Longitude?



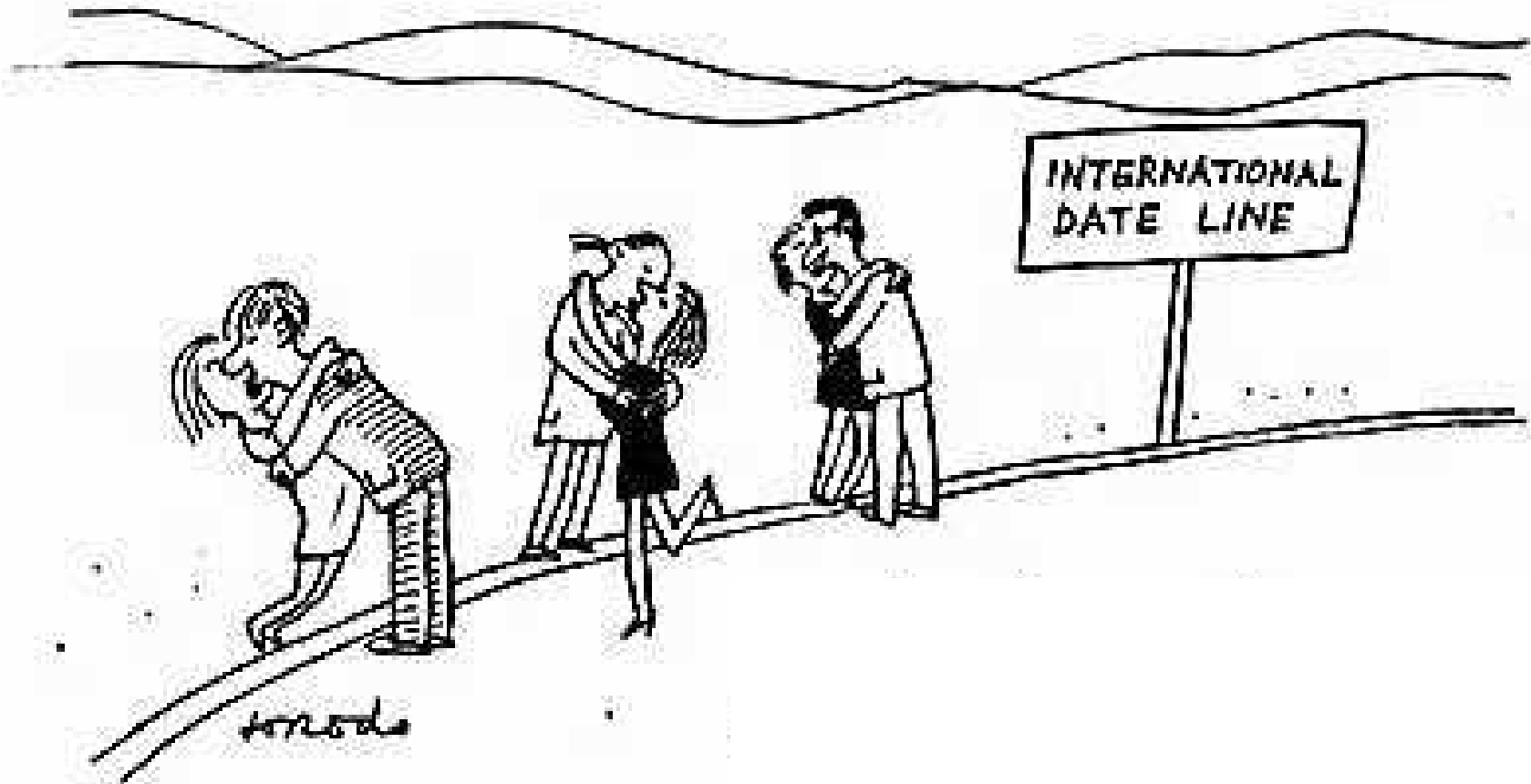
- The Prime Meridian, as do all other lines of longitude, pass through the north and south pole.
- They make the earth look like a peeled orange.

# The Prime Meridian

- The Prime meridian divides the earth in half too.
- It is also  $0^\circ$ . It passes through the community of Greenwich, England.



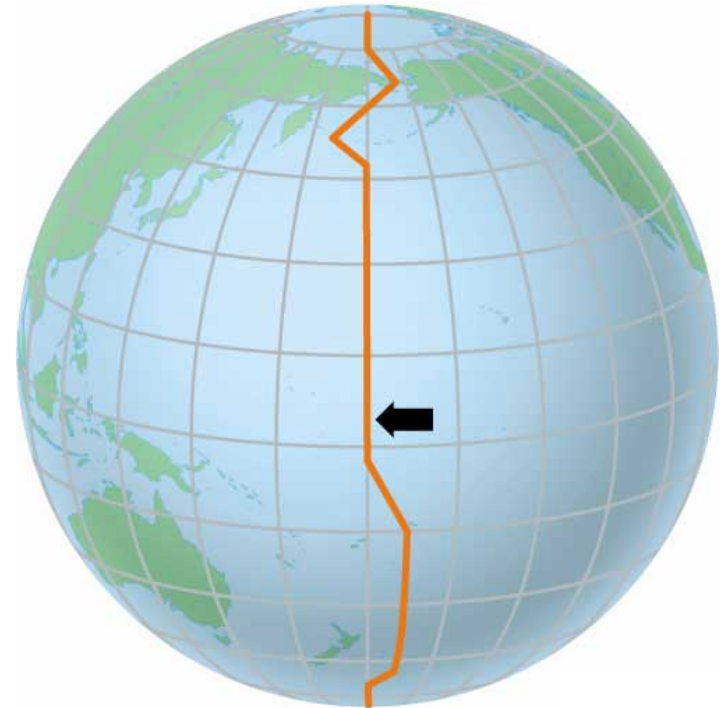
# The International Date Line





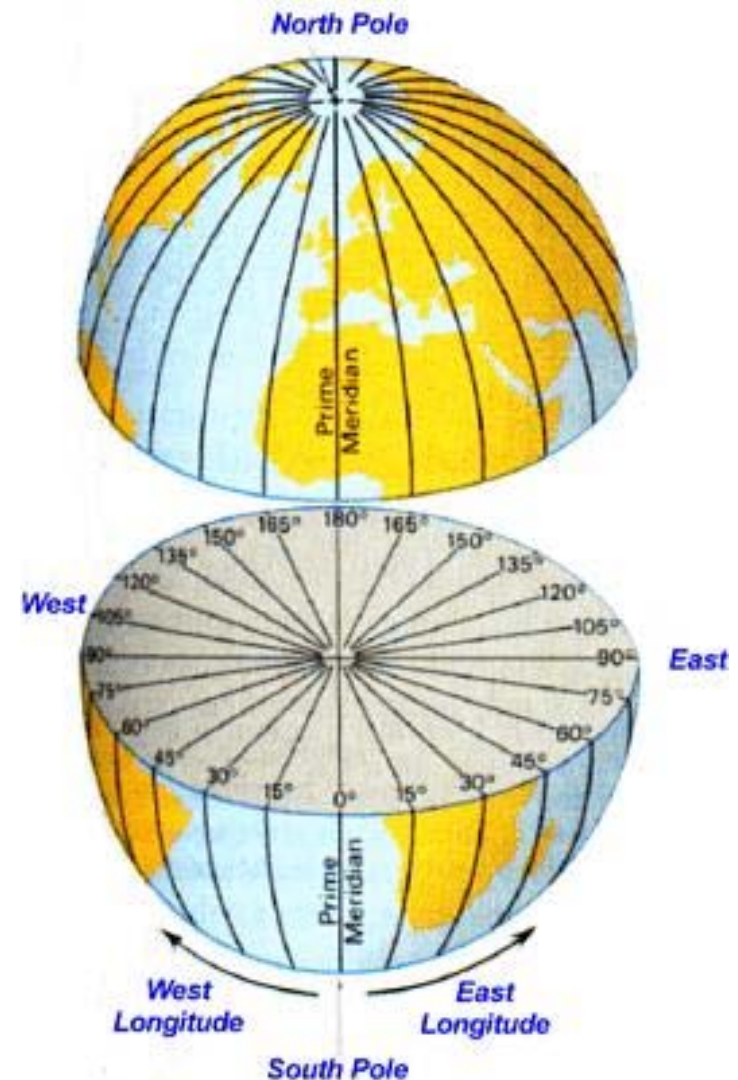
# The International Date Line

- There are 180 lines of longitude on each side of the prime meridian.
- But on the opposite side, the primer meridian is not zero degrees but  $180^{\circ}$ .
- It is called the International Date Line.



# East and West Longitudes

- Longitude lines to the left of the prime meridian give locations west, in the western hemisphere.
- Longitude lines to the right of the prime meridian give locations east, in the eastern hemisphere.



Here's another quiz!

Pull out your whiteboards again!



Longitude lines connect the

                     North                      pole with the

                     South                      pole.

The line of  $0^\circ$  longitude is called  
the Prime Meridian.

Longitude lines give directions

East \_\_\_\_\_ and

\_\_\_\_\_ West \_\_\_\_\_ of the prime

\_\_\_\_\_ meridian.

There are 180  
degrees of longitude on each  
side of the prime meridian.

Longitude lines are not  
Parallel \_\_\_\_\_ like latitude  

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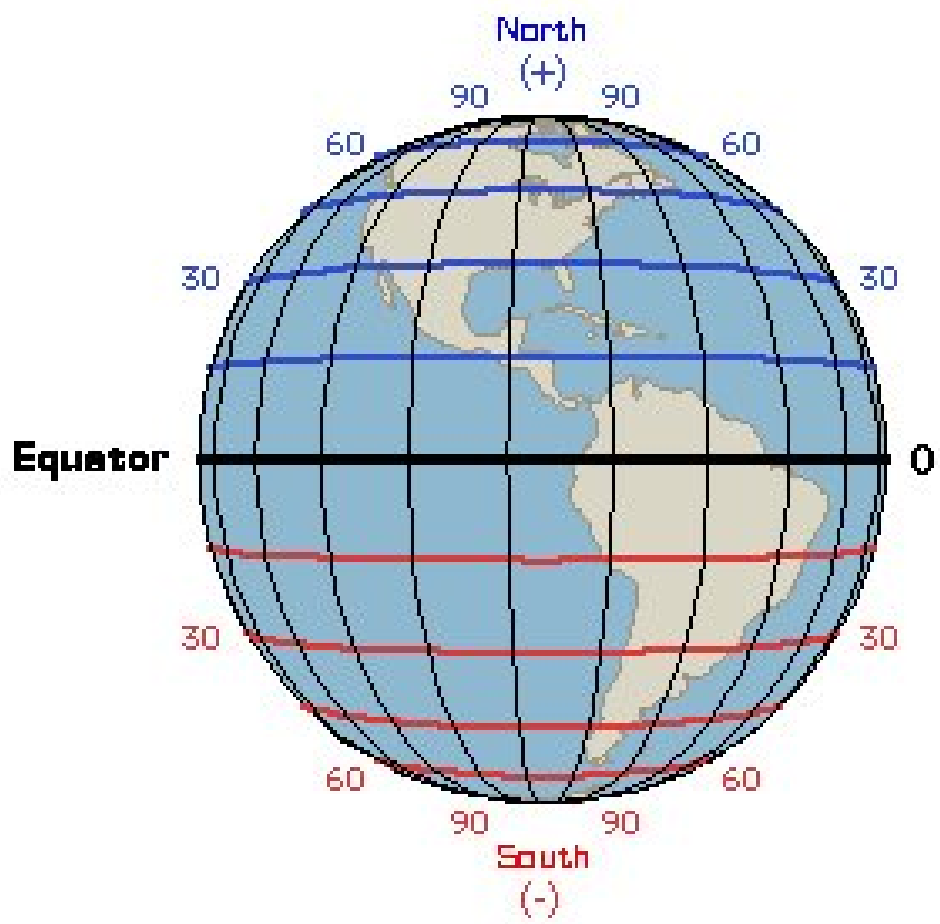
lines.



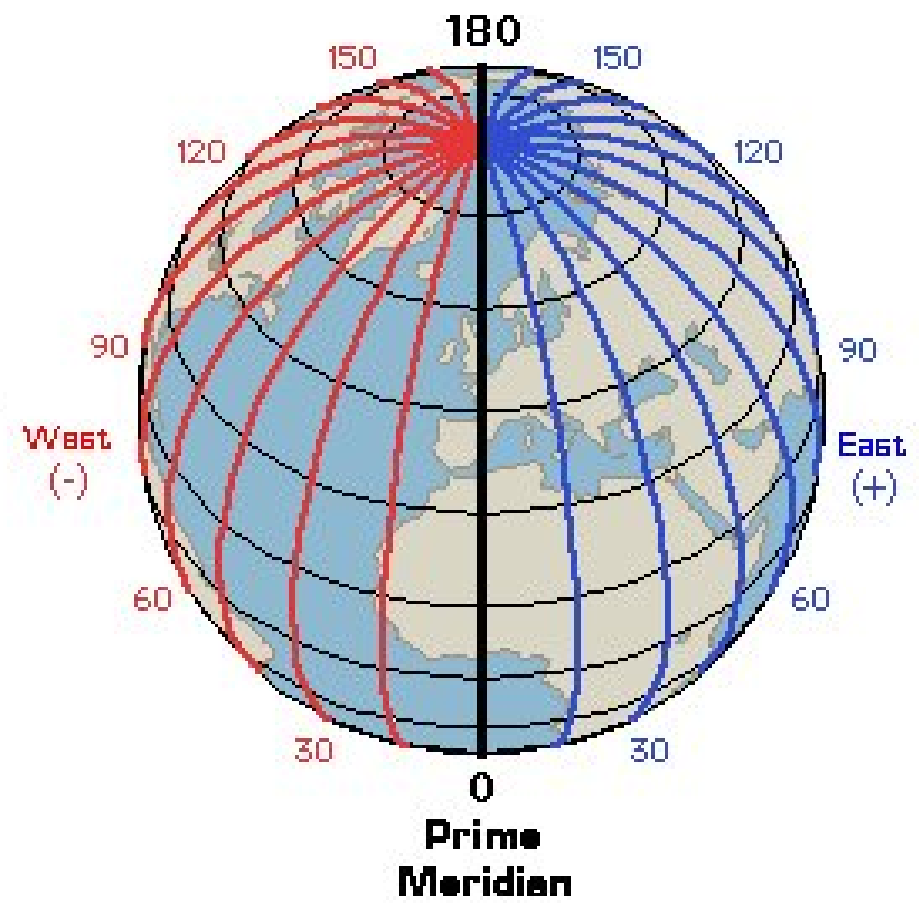
**Great Job!**

**Let's Continue**

### Latitude



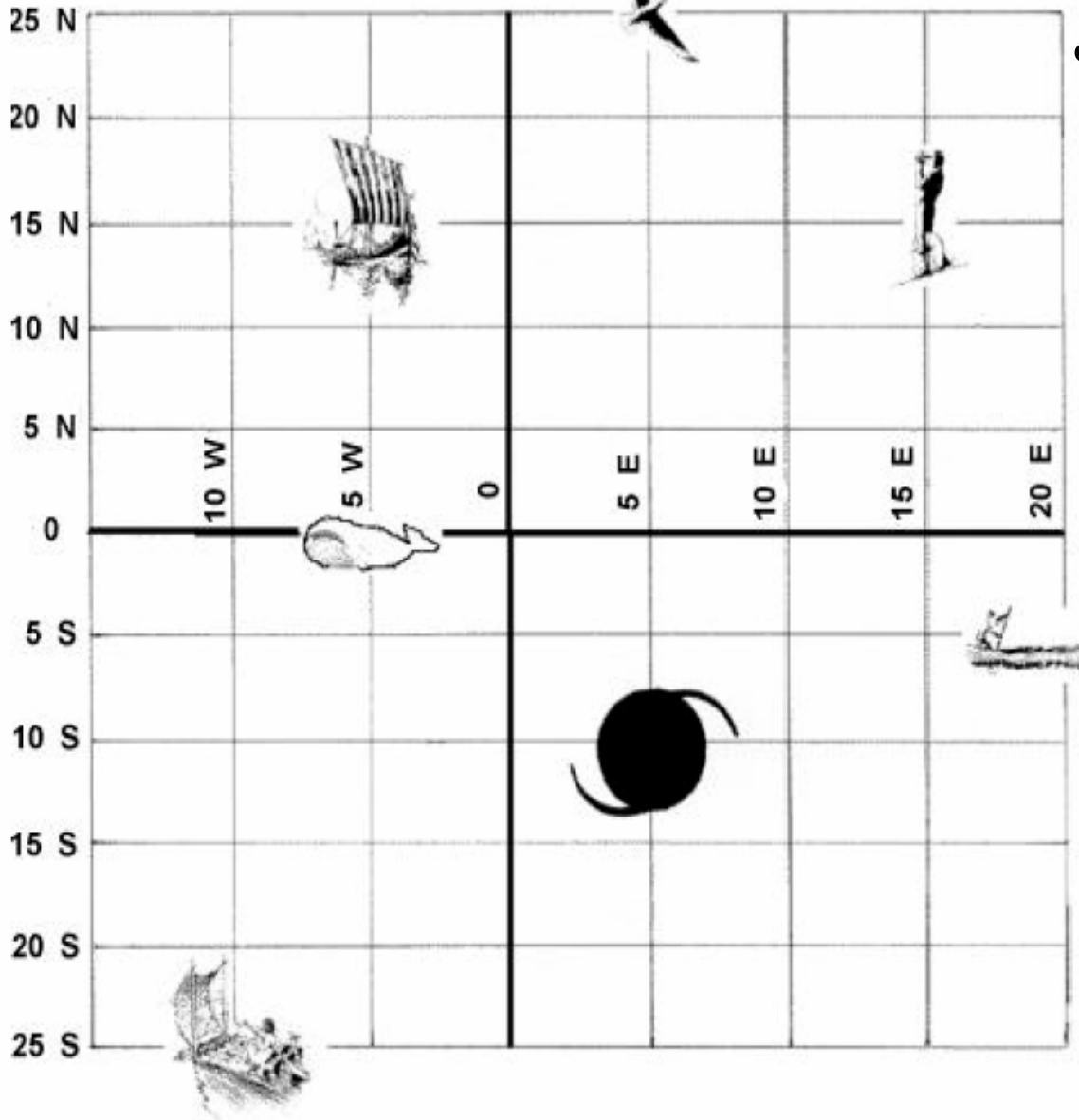
### Longitude



# Using Latitude and Longitude

- To find your exact location on a map, you need to determine which latitude line and which longitude line meet where you are standing.
- When writing locations, the latitude is given first.
  - For example
    - Miami, Florida, has a location of 25° North and 80° West.
    - This is usually written in a short form as 25° N 80° W

# Lets Practice



- Give the Latitude and Longitude of each of the following shapes.

- Viking Ship 15 N 5 W
- Hurricane 10 S 5 E
- Tourist 15 N 15 E
- Rafter 25 S 10 W
- Whale 0 N 5 W
- Canoeists 5 S 20 E
- Flying Bird 25 N 5 E

Do you know what Longitude, Latitude, Longitude,  
Do you know what Longitude Latitude Mean?  
Longitude, Latitude, Longitude, Latitude,  
Yes I know what Longitude Latitude mean.

Latitude is the angular distance measured in degrees.  
It tells how far from the equator anyplace happens to be.  
North or South from the equator wherever a place may be.  
Latitude gives the angular distance, scientifically.



Do you know what Longitude, Latitude, Longitude.  
Do you know what Longitude, Latitude Mean?  
Longitude, Latitude, Longitude, Latitude,  
Yes, I know what Longitude, Latitude mean.

Longitude is the angular distance measured in degrees.  
It tells how far from Greenwich England anyplace happens to be.  
East or West from Greenwich England, wherever a place may be,  
Longitude gives the angular distance, scientifically.

Do you know what Longitude, Latitude, Longitude.  
Do you know what Longitude, Latitude Mean?  
Longitude, Latitude, Longitude, Latitude,  
Yes we know what Longitude, Latitude mean.

Let's take a another quiz!

Do you know what Longitude and  
Latitude Mean?



Name the City located at 30°  
North and 90° West.

New Orleans

Name the state that is located  
entirely between 40-45° North  
and 90-100° West.

Iowa



The line at 0° Longitude is  
called what?

The Prime Meridian

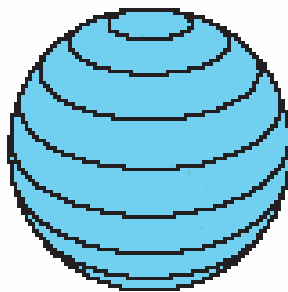
Longitude and Latitude are  
measured in what?

Degrees

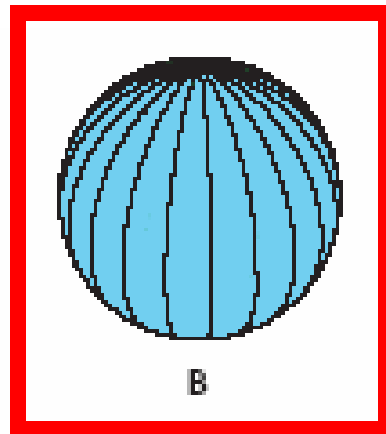
What is the degrees latitude of  
the equator?

0°

Which Picture shows lines of Longitude?



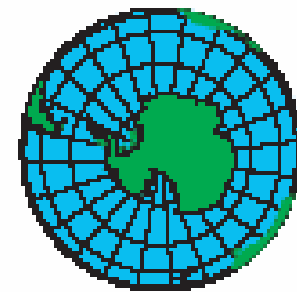
A



B

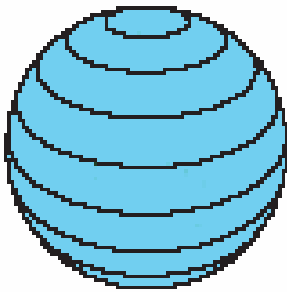


C

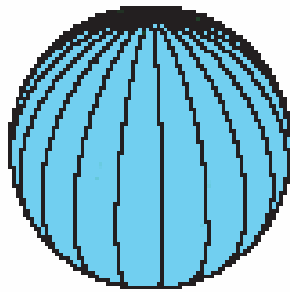


D

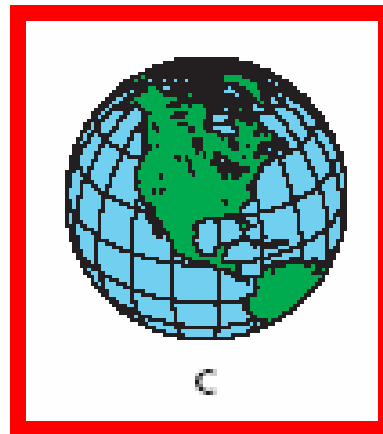
Which picture shows the  
Western Hemisphere?



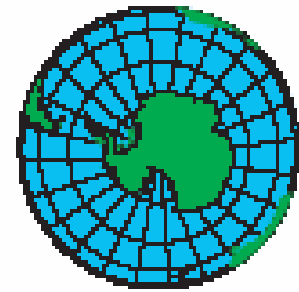
A



B

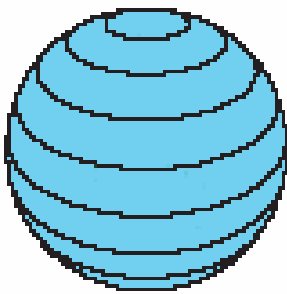


C

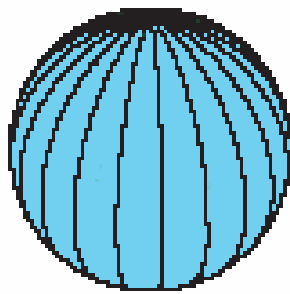


D

Which picture shows the Southern Hemisphere?



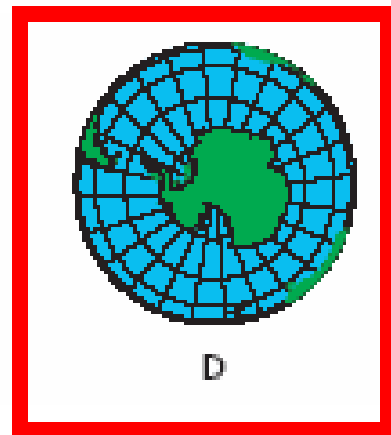
A



B

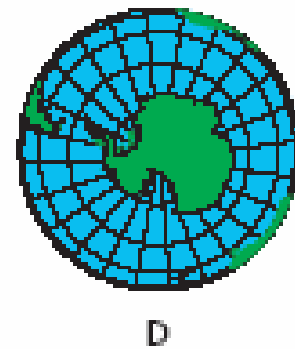
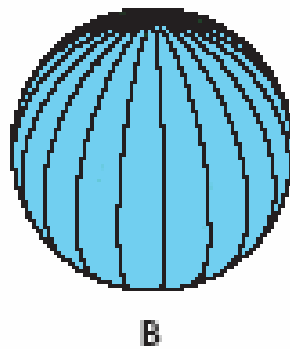
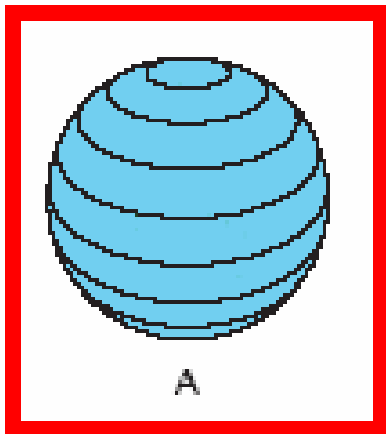


C



D

The measure that shows how far North or South a place is from the equator is shown in which picture?



**Great Job!!!!**