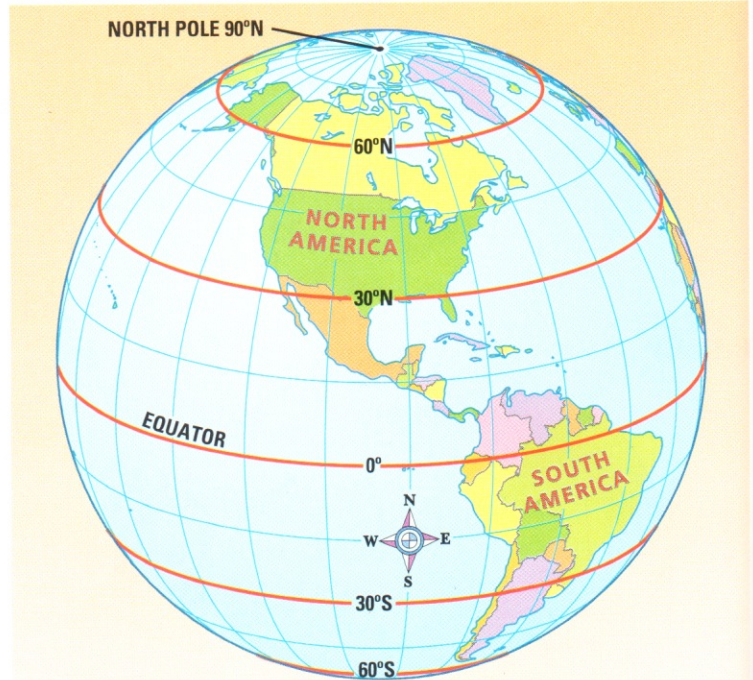


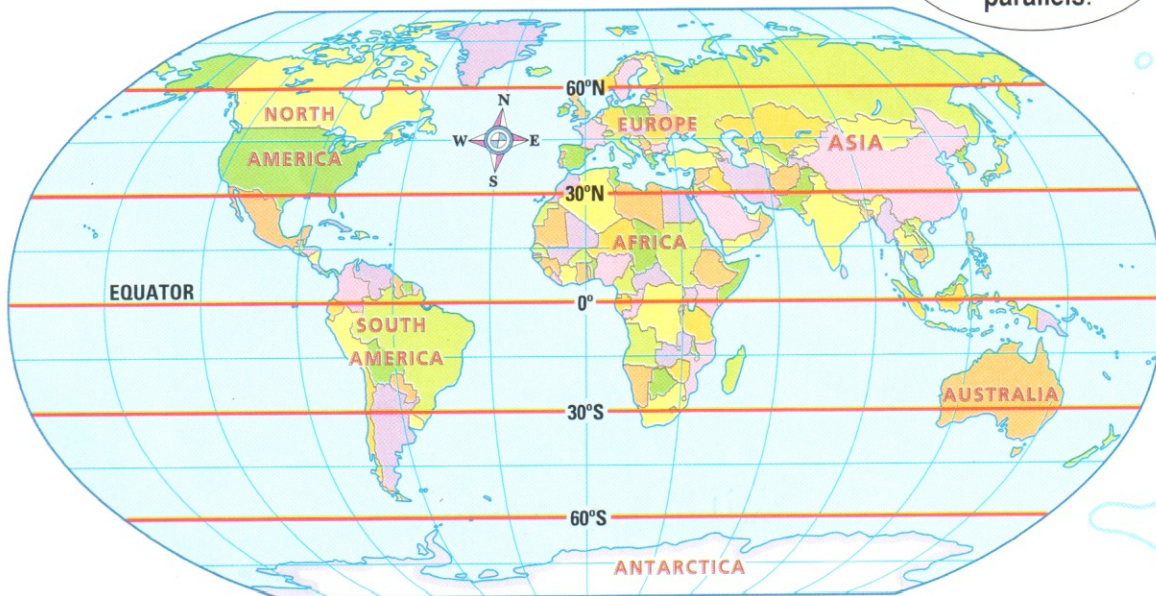
What is latitude?

Maps and globes are divided with lines that run east and west.

- ◆ East-west lines are called lines of **latitude**.
- ◆ Latitude means distance north or south of the Equator. It is measured in **degrees**.
- ◆ The Equator is the line at **0° latitude**.



Latitudes are numbered from 0° to 90°N and from 0° to 90°S. The two poles are the highest latitudes.



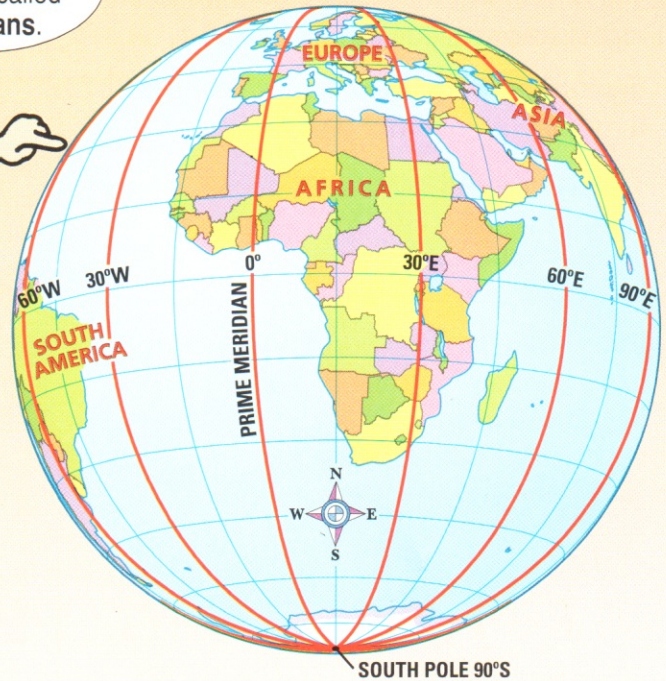
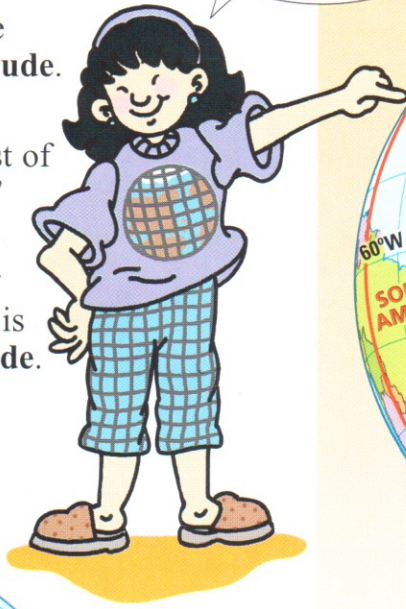
On the globe, latitude lines are circles. But on many world maps, they look like straight lines.

What is longitude?

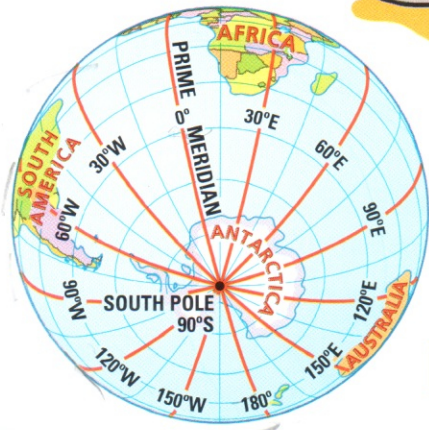
Maps and globes are divided with lines that run north and south.

- ◆ North-south lines are called lines of **longitude**.
- ◆ Longitude means “distance east or west of the Prime Meridian.” Like latitude, it is measured in degrees.
- ◆ The Prime Meridian is the line at **0° longitude**.

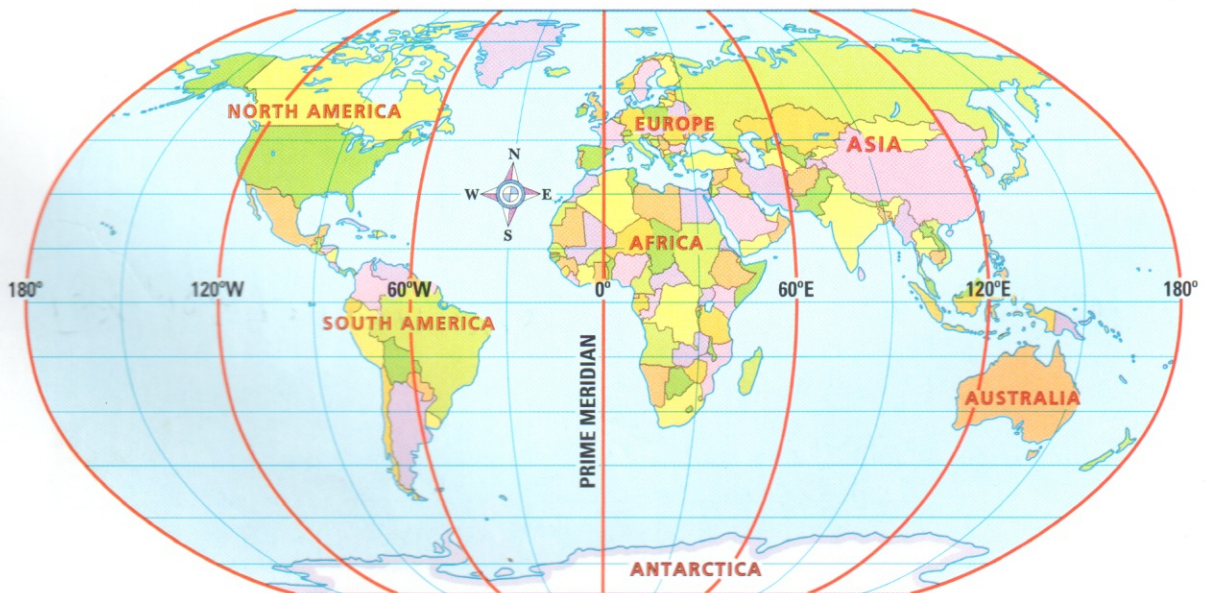
Lines of longitude also are called **meridians**.



Longitudes are numbered from 0° east to 180° and from 0° west to 180°.



Longitude lines meet at both poles.



Most world maps cannot show how longitude lines meet at the poles.

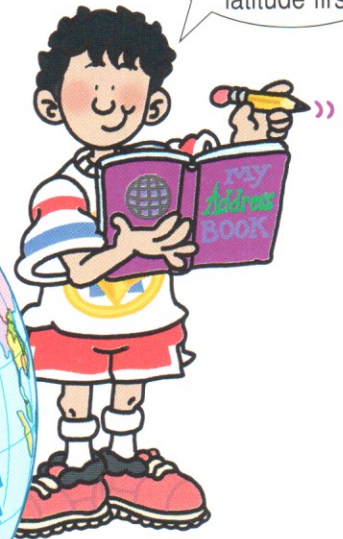
How do you use the grid system?

Latitude and longitude lines give a map or globe a **grid system** for locating places.

- ◆ Each line of latitude crosses each line of longitude at just one point.
- ◆ The **global address** of the point where they cross is the latitude number followed by longitude number.
- ◆ Every place in the world has a global address, because the world is covered with imaginary grid lines.



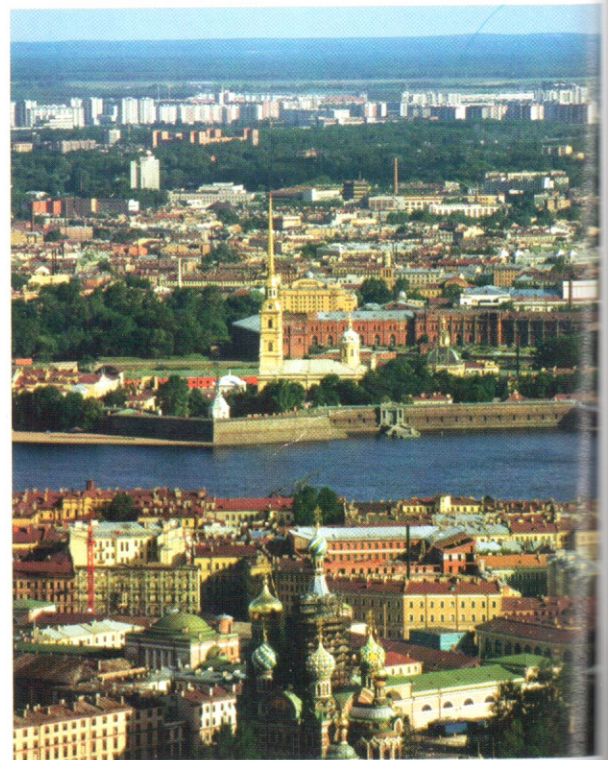
A global address always gives latitude first.



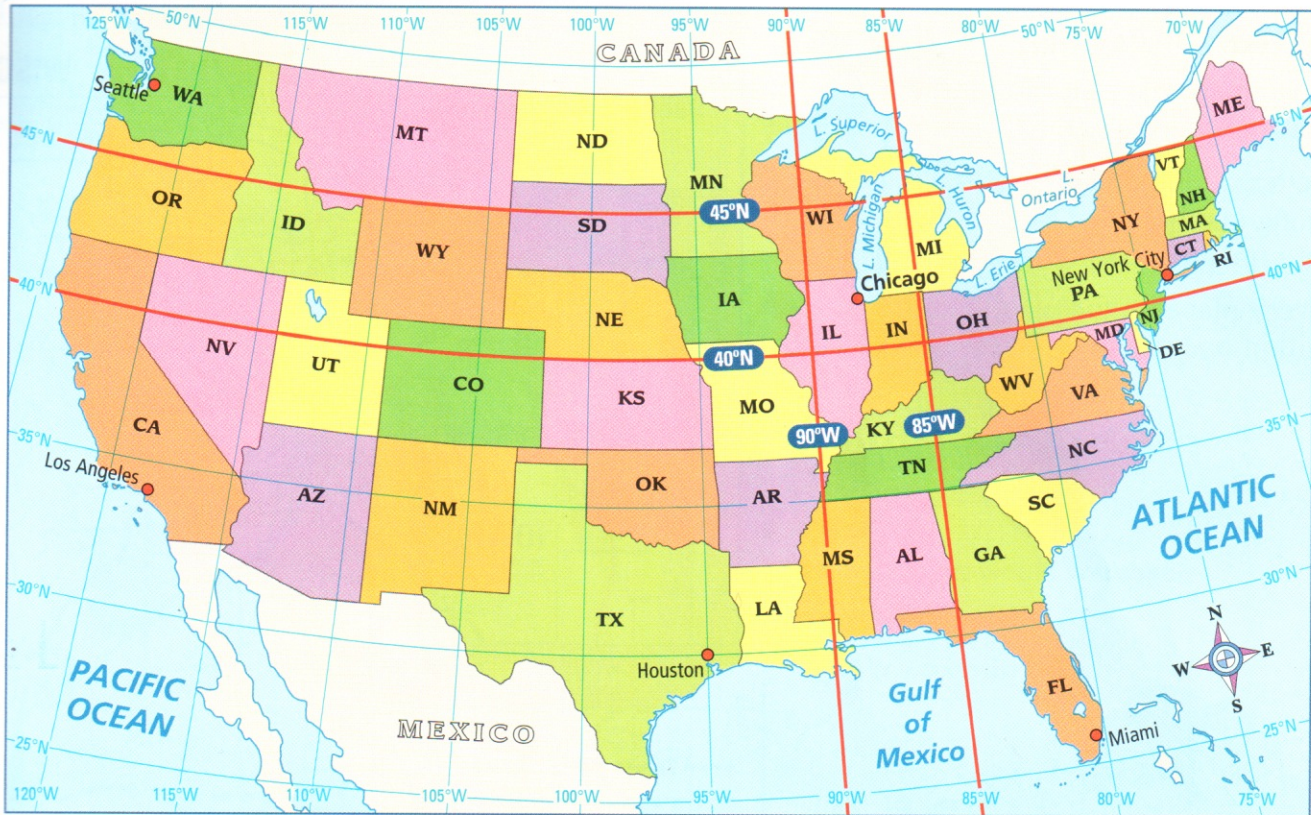
Many globes have a **15° grid**, showing grid lines that are 15° apart.



The **60°N latitude** line and the **30°E longitude** line cross at St. Petersburg, in Russia.



The global address of St. Petersburg, Russia, is **60°N, 30°E**. Find it above.



Many maps of the United States have a 5° grid. Most cities are not located at places where these grid lines cross.



Chicago is located on grid lines between the ones shown on the U.S. map. If you drew the missing lines, the map would look like this.



Chicago's global address is 42°N, 88°W. Find it on the map to the left.