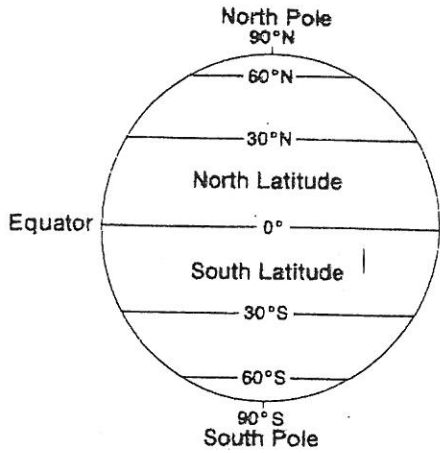


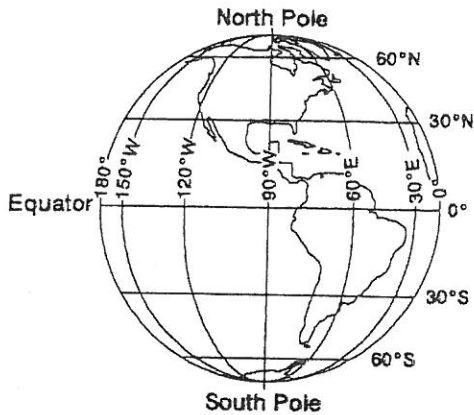
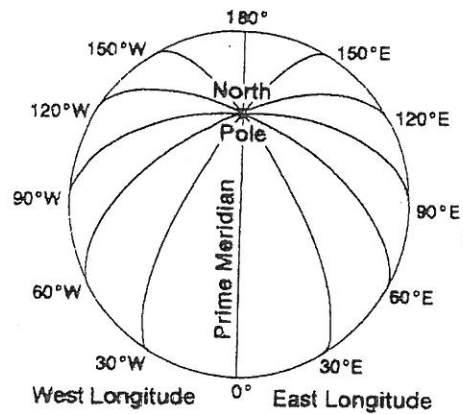
WORKSHEET C Latitude and Longitude: The Grid System

Numbered lines on many maps are to help locate places. Lines that run north to south are called *longitude* lines or *meridians*. Lines from east to west are *latitude* lines or *parallels*. Note that lines are numbered in degrees (shown by the symbol °). Because lines of latitude and longitude cross and form a *grid*, the use of these lines to locate places is called the *grid system*. Use these diagrams and maps to answer the questions.

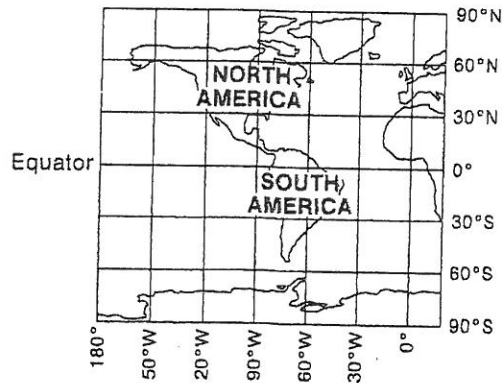
LATITUDE LINES (PARALLELS)



LONGITUDE LINES (MERIDIANS)



LATITUDE AND LONGITUDE GRID



NORTH AND SOUTH AMERICA

1. What is the name of the line that marks zero degrees (0°) latitude? _____
2. (a) How many degrees of latitude are there from zero degrees latitude to the North Pole? _____
 (b) From zero degrees latitude to the South Pole? _____
3. Which lines meet at the poles—latitude or longitude? _____
4. What is the name of the line that marks zero degrees longitude? _____
5. On which continent does 30° south latitude cross 60° west longitude? _____

Latitude and Longitude

ACTIVITY 4

Use the World Political Map on pages 12-13 to answer these questions.

- The 0° line of latitude is the starting place for measuring latitude. What is the name of that line?

- Find the 0° line of longitude. This is called the prime meridian.
Name several countries that it crosses. _____
- If you took a journey along 45° south latitude, how many countries would you cross? _____
Name the countries. _____
- Identify the latitude and longitude of Ottawa, Ontario, in Canada. _____
- Match each of the following cities with its location. In the second list, latitude is shown first, then longitude.

_____ a. Mumbai (Bombay), India	(1) 31° N, 121° E
_____ b. Sydney, Australia	(2) 23° S, 43° W
_____ c. London, United Kingdom	(3) 34° S, 151° E
_____ d. Shanghai, China	(4) 19° N, 72° E
_____ e. Rio de Janeiro, Brazil	(5) 51° N, 0°
- You are traveling between two places in the United States. One is located at 21° N, 158° W; the other is located at 61° N, 149° W. Due to a strike, all airline flights are canceled.
What other form of transportation could you use? _____
- Some special lines of latitude are shown as dashed lines on the map. Identify each of the following latitudes:
about 23° north latitude _____ about 23° south latitude _____
Look at the World Climate Map on pages 14-15. How are these lines of latitude related to hot climates? _____

**For!
Fun!**

An alien invasion is scheduled for sometime next week. But the experts cannot crack the code to find out the day and time. Help them out. Use any map in your atlas to locate the following countries. The first letter of each place name will tell you when to expect the invasion.

- | | | |
|-------------------------------------|--------------------------------------|-------------------------------------|
| a. 40° N, 30° E _____ | e. 25° N, 105° W _____ | i. 57° N, 10° E _____ |
| b. 30° N, 30° E _____ | f. 45° N, 105° E _____ | j. 75° S, 0° _____ |
| c. 20° S, 15° E _____ | g. 20° N, 55° E _____ | k. 15° N, 45° E _____ |
| d. 30° S, 60° W _____ | h. 12° N, 85° W _____ | |