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

 Using Absolute Location

 The Earth has a grid system for locating the global addresses of cities around the world.
 The “streets” running east-west are called the lines of latitude, or parallels, and the “streets” running north-south are called the lines of longitude, or meridians. These are imaginary lines.

 The zero lines of latitude is the equator, which circles the earth midway between the poles. Imaginary lines run parallel to the equator both north and south until they reach the poles, which are 90 degrees north (North Pole) and 90 degrees south (South Pole). For better accuracy, each degree is divided into go minutes. Honolulu, Hawaii, is located at 21 degrees, 19 minutes north, (21o.19’N). The N tells us it is in the Northern Hemisphere.

 The zero line for the north/south longitude lines is the prime meridian, chosen because it runs from the North Pole to the South Pole through the Royal Observatory in Greenwich, England. The longitude lines also continue in degrees east and west until they reach the midway point on the other side of the prime meridian, which is 180 degrees and is called the International Date Line. These lines are not parallel because they all run through the North and South Poles. Honolulu, Hawaii, is located at 157 degrees and 50 minutes west (1570.50’W). The W tells us it is in the Western Hemisphere. The complete address for Honolulu is 21o.19’N 157o.50’W. Notice that the latitude is written first and the longitude last. These numbers are called the coordinates.

**Where on Earth is This Location?**

 Now that you have learned about latitude and longitude, let’s locate places on Earth using coordinates. First, locate the lines of latitude indicated, and then follow that line until it meets the line of longitude indicated. The point where the two lines meet is the point indicated by the coordinates.

Place a dot on Map II at each set of latitude and longitude coordinates.

60oN, 75oE 30oS, 135oW 75oN, 0o 0o, 150oW 45oN, 45oE 75oS, 180o

**Where is This City Located?**

 Find these cities on the map and write down its latitude and longitude coordinates.

Ottawa

Juneau

Bombay

Shanghai

Dakar

Cairo

Washington DC

 Write the name of the city located at each set of coordinates

48oN, 2oE 35oS, 149oE

34oN, 118oW 22oS, 43oW

**Finding Latitude and Longitude**

1. Trace the Equator in green.

2. Trace the Prime Meridian in red.

3. Circle the point where the equator and the Prime Meridian cross.

 - Is that point in the land or on water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Trace the 30oN latitude line in blue.

5. Trace the 90oW longitude line in orange.

6. What city is near the point where 30oN and 90oW cross? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Trace the 150oE longitude line in purple.

 - What two cities lie near this line?

 a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. To locate these cities, you also need to know their degrees latitude. Write their degrees latitude after their names in
 number 7.

9. Anchorage and St. Petersburg are near the same lines if latitude.

 - What is the line of latitude? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Anchorage and St. Petersburg are on different lines of longitude. Estimate their degree longitude.

 Anchorage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ St. Petersburg \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

