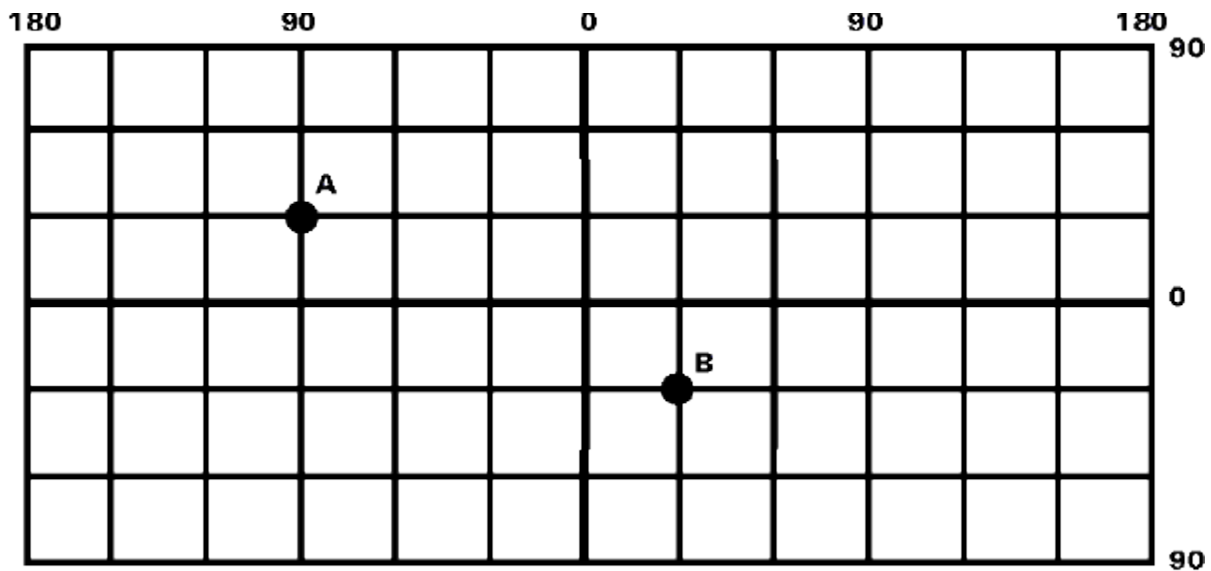


LATITUDE AND LONGITUDE LAB

Refer to grid lines on a globe:

1. The lines running north-south represent degrees of _____ which is measured from the _____ in a _____ and _____ direction. These lines are known also as _____.
2. The lines running east-west represent degrees of _____ which is measured from the _____ in an _____ and _____ direction. These lines are known also as _____.
3. The geographic grid used on the globe is based on the division of a circle in _____ degrees. Each degree is divided into _____ equal parts called minutes, and each minute into _____ equal parts called _____.
4. Latitude is numbered from _____ degrees at the equator to _____ degrees at either pole.
5. Longitude is numbered from _____ degrees at the prime meridian to _____ degrees at the international date line.
6. A degree of latitude is approximately _____ miles at the equator and _____ miles at the poles. A degree of longitude is approximately _____ miles at the equator

and _____ miles at the poles.



7. What are the coordinates of point A? _____
8. Locate the same coordinates on a globe. In what country is point A located? _____
9. What are the coordinates of point B? _____
10. Locate the same coordinates on the globe. In what country is point B located? _____
11. Locate a point at 10° South Latitude and 45° West Longitude. Mark it CB.
12. Locate a point at 20° North Latitude and 75° East Longitude. Mark it D.
13. By examining the coordinates only, determine the APPROXIMATE distance between:

- a. New Orleans and St. Louis _____
- b. Philadelphia and Denver _____
- c. Wilmington, N.C. and Los Angeles _____
- d. Madrid, Spain and Edinburgh, Scotland _____

14. Write the following in their correct form:

60 degrees, 29 minutes, 5 seconds, North Latitude _____

10 degrees, 20 minutes, 50 seconds, South Latitude _____

125 degrees, 45 minutes, 3 seconds, West Longitude _____

15. Correct the errors in the following:

89° 47' 65" S _____

185° 24' 37" E _____

65° 77' 42" W _____

40° 50" 21' S _____

16. What is the latitude and longitude of Chicago Ill.?

17. What large European city has a similar latitude to that of Chicago?

18. What is this cities Latitude and longitude?

19. What large city in Asia has a similar latitude to that of Chicago?

20. What is this city's Latitude and Longitude?

21. The term "antipodes" refers to two places on opposite sides of the earth so that a straight line drawn through the earth from one to the other passes through the center of the earth. To be exact antipodes, two places must be 180 ° of longitude away from each other, antipode must be as many degrees north latitude as the other is south latitude.

What are the coordinates of the antipode of

Chicago? _____

What is the nearest large land mass? _____

What is the nearest large city? _____

22. Below are some geographic grid coordinates for selected cities of the world. Examine an atlas and identify each city.

34° 03' N, 118 ° 15' W _____

34 ° 20' S, 58 ° 30' W _____

52° 21' N, 4 ° 52' E _____

61 ° 12'N, 149 ° 48' W _____

23. A number of cities are listed below. Using an atlas, give latitude and longitude of each in degrees and minutes.

Milwaukee, Wisconsin _____

Quito, Ecuador _____

Calcutta, India _____

London England _____

Capetown, South Africa _____

Moscow, Russia _____

Miami, Florida _____