


Maps & Projections

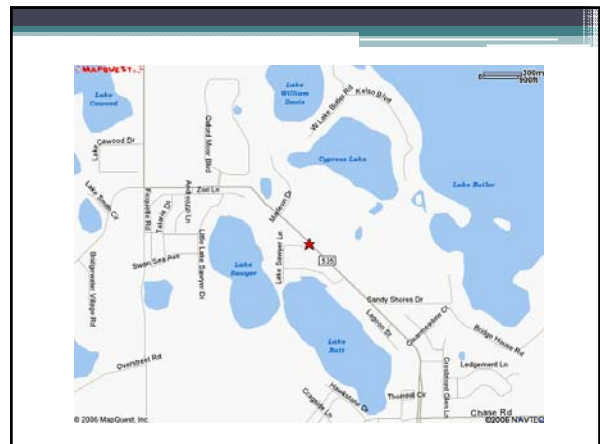
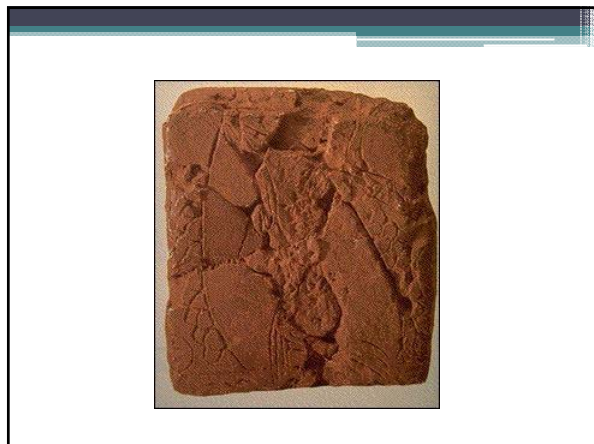
AP Human Geography



What's in a Map?



Examine some of the images on the following slides.
Are they maps? Yes or no?





So, what do you think?

According to its definition:

“A map serves two purposes: a tool for storing reference material and a tool for communicating geographic information.”

- De Blij, H.J. and Murphy, Alexander B. *Human Geography: Culture, Society and Space, Seventh Edition*, (New York: John Wiley & Sons, 2003).

Do these maps tell us geographic information, or where to find something? Do they tell us something about the area that is being mapped?

YES

All of the images, though from vastly different sources, with vastly different uses, are maps.

First, we will look at each image and see WHY it is a map.

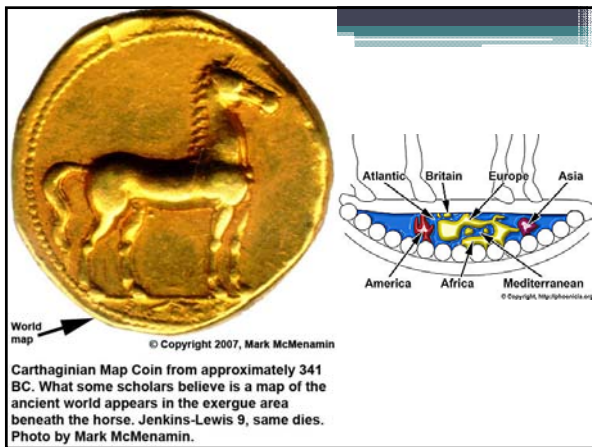
Then, we will look at some maps made in the past few thousand years

Child’s Map of Disney World

(okay- it still needs labels to be a TRUE map, but she can’t write!)

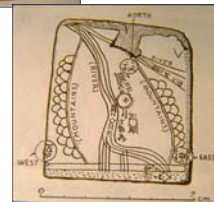


- This image, drawn by a 4 year old, stores both reference material and geographic information. If she could spell, and there were labels, it would be more convincing!
- Black = scary ride (Pirates, Peter Pan)
- Green= good ride (Tree House, Buzz Light Year is the largest one, her favorite!)
- According to her dad, when she drew the rides they were in the right order!



World map
© Copyright 2007, Mark McMenemy
Carthaginian Map Coin from approximately 341 BC. What some scholars believe is a map of the ancient world appears in the exergue area beneath the horse. Jenkins-Lewis 9, same dies. Photo by Mark McMenemy.

Ga-Sur 2500 B.C.



- Regarded as earliest known map, drawn on a clay tablet in Ancient Babylon.
- The line drawing is a clearer image of the map, which explains the position of the town on a river, in a valley.

What makes this a map?

- You are likely most familiar with this sort of image, from Map Quest.
- Why is it a map?
- Reference Material?
- Geographic information?
- Both?

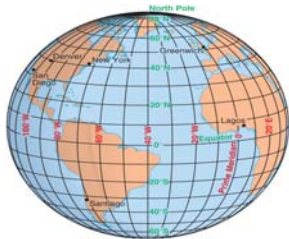


The London Underground

- The “Tube” map from London is one of the most famous maps from the 20th century.
- The color coding and geometric lines make reading the map and riding the tube very simple.
- However, it is not a good indicator of where things are on ground level!

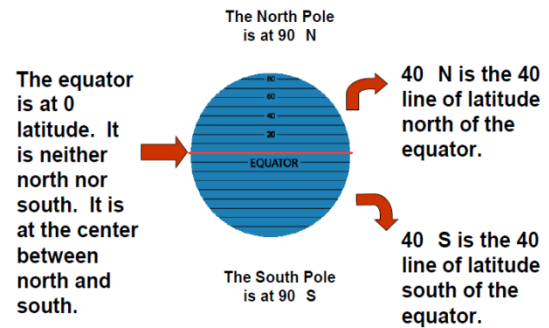


World Geographic Grid

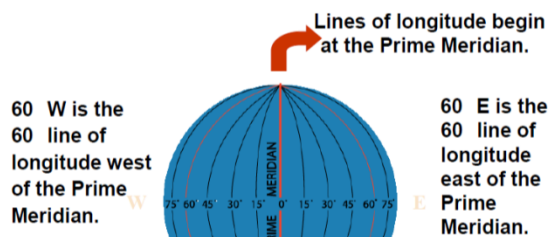


Copyright © 2008 Pearson Education, Inc.
The world geographic grid consists of meridians of longitude and parallels of latitude. The prime meridian (0°) passes through Greenwich, England.

Latitude

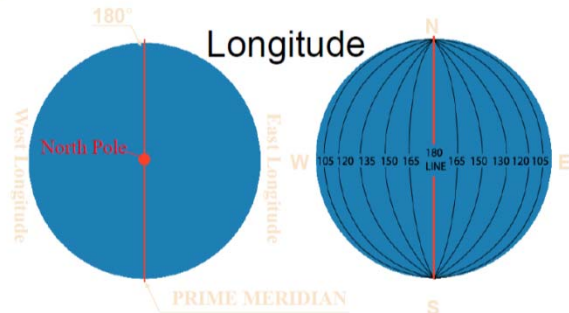


Longitude



The Prime Meridian is located at 0°. It is neither east or west

Longitude



Lines of longitude are numbered east from the Prime Meridian to the 180° line and west from the Prime Meridian to the 180° line.

Prime Meridian

The Prime Meridian (0°) and the 180° line split the earth into the Western Hemisphere and Eastern Hemisphere.

Prime Meridian

Western Hemisphere

Eastern Hemisphere

Places located east of the Prime Meridian have an east longitude (E) address. Places located west of the Prime Meridian have a west longitude (W) address.

By combining latitude and longitude, any location can be pinpointed

Latitude

North (+)

Equator

South (-)

Longitude

180

West (-)

East (+)

Prime meridian

Application

North America is in the Northern Hemisphere because it is north of the Equator. North America is in the Western Hemisphere because it is west of the Prime Meridian.

East Increase – West Less (1 hr per 15°)

If it 9 p.m. at Position D, what time is it at position C? Position B?

If it is 1 p.m. at Position X, at which location is the time 5 p.m.

