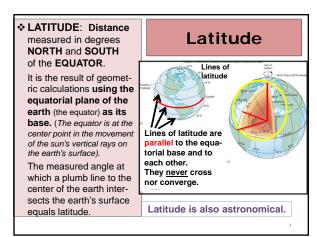
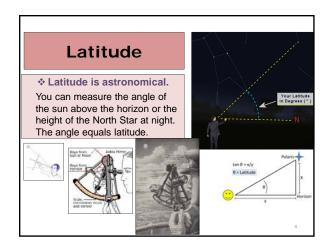
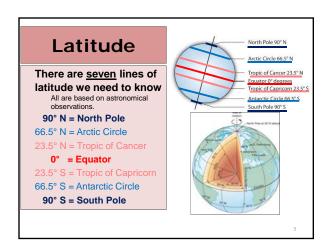
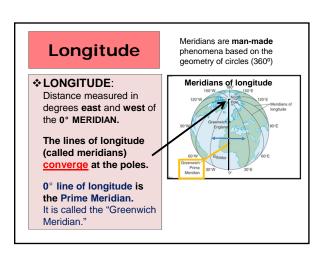


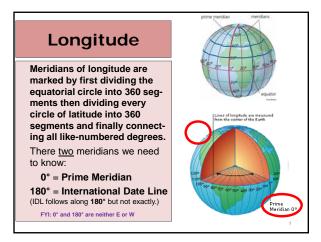
Location Systems To portray data spatially, we need a way to accurately locate places on the earth's surface. This is the GRID SYSTEM. Composed of lines of latitude and longitude. Allows us to see locations, patterns, and interrelationships. Allows us to measure distance.

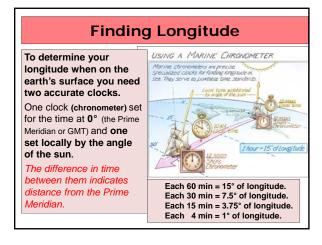


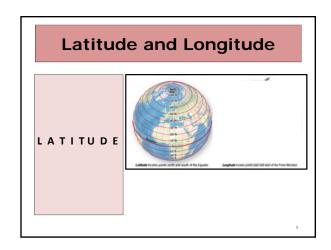


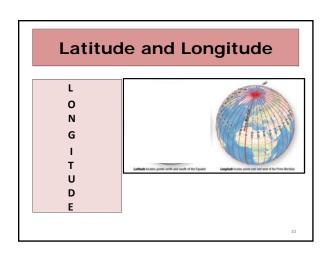


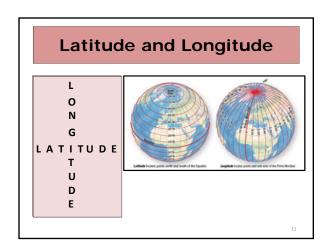


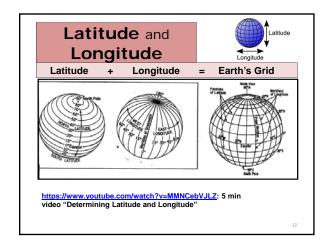


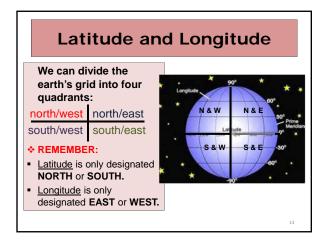


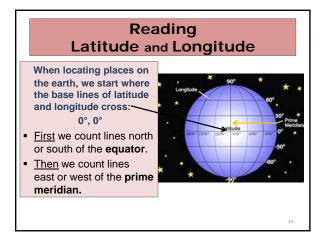


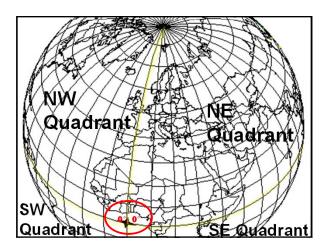












TIME

The longitude of a location is determined by time differential.

You need to know the <u>difference</u> between "<u>local" or</u> "<u>sun" time and "prime meridian time (GMT)."</u>

NOTE: It is the <u>same time</u> (hour of the day) along any meridian from the <u>North Pole to the South Pole</u>.

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TIME ZONES

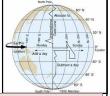
- Standard Time Zone: an area of the earth that is 15° of longitude wide (360° ÷ 24 hrs of one rotation = 15°/hr), where all clocks are set when solar noon occurs at the zone's center meridian.
- √ Time zones are based on calculating longitude.
- ✓ Concept created in 1884 by US railroad companies for scheduling purposes.

Each 15° of longitude = 1 hour of time.

- Each 7.5° of longitude = 30 minutes.
- Each 3.75° of longitude = 15 minutes.
- Each 1° of longitude = 4 minutes.

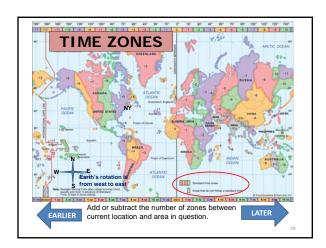
TIME ZONES

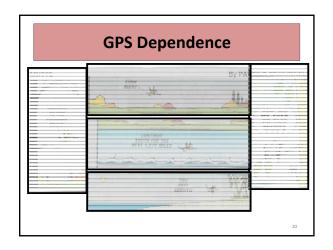
- There are 24 world standard time zones, each 15° wide.
- Numerous off-standard zones (half hour, multi-hour, sun) created by governments.
- Over 30 irregular-shaped zones due to political borders.

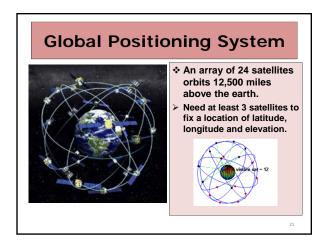


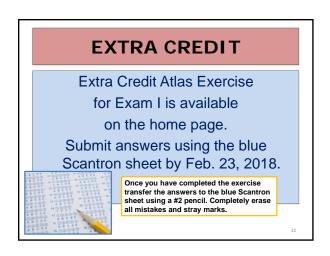
The International Date Line generally follows the 180° meridian – but not exactly in order to keep political units in the same date. When the line is crossed the <u>date</u> changes, e.g., 3 PM Tuesday becomes 3 PM Wednesday, or vice versa, depending on direction of movement.

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NEXT Parts of Maps