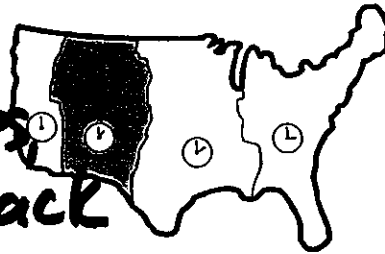


III. Time and Longitude

- People have used the stars to note the passage of time.
- The earth rotates spins:
 - 360° in 24 hours.
 - 15° in one hour
 - 1° every 4 ~~hours~~ minute
- Humans divided the earth into 24 time zones.
- Meridians of longitude are the basis for time zones.
- If you move one time zone to the West, the time is 1 hour earlier.
- If you move one time zone to the East, the time is 1 hour later.
- Why did humans put time zones on earth?

Once humans were traveling far distances we needed to keep track of time -



<p>6 The time required for one Earth rotation is about</p> <p>(1) one hour (3) one month</p> <p>(2) one day (4) one year</p>	<p>7 Cities located on the same meridian (longitude) must have the same</p> <p>(1) altitude (3) length of daylight</p> <p>(2) latitude (4) solar time</p>
<p>8 A person knows the solar time on the Prime Meridian and the local solar time. What determination can be made?</p> <p>(1) the date</p> <p>(2) the altitude of Polaris</p> <p>(3) the longitude at which the person is located</p> <p>(4) the latitude at which the person is located</p>	<p>9 Upon which frame of reference is time based?</p> <p>(1) the motions of the Earth</p> <p>(2) the longitude of an observer</p> <p>(3) the motions of the Moon</p> <p>(4) the real motions of the Sun</p>
<p>10 What is the total number of degrees that the Earth rotates on its axis during a 12-hour period?</p> <p>(1) 1° (3) 180°</p> <p>(2) 15° (4) 360°</p>	