## 3-Timeandlongitude.notebook

## September 24, 2012

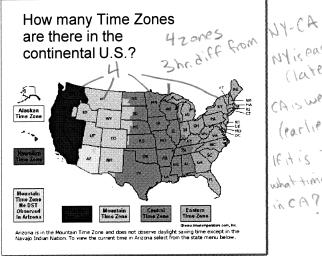
## Aim: How do you determine longitude?

Time: Earth Rotates 360° on its axis in 24hrs. 360° - 150/hr

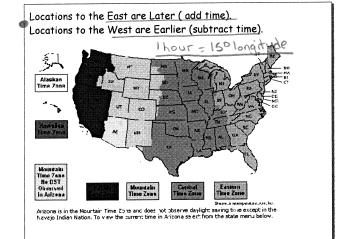
Every 150 longitude = I hour time difference Since the Sun rises in the East + sets West

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begins First



Oct 6-9:45 AM



- 1. If two cities are 15' apart they have a 1 hour time difference.
- 2. If two cities are 30' apart they have a \_\_\_ hour time difference.
- 3. If there is a 3 hour time difference between cities there are 45 degrees latitude between them.

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A Time is out of 12 count outland

Ex. Your time is 2pm, Prime Meridian time is 10am. What is your longitude?

-10am 150x4hr 60°E 4hrs later hr later

Ex. Your time is 10am, Prime Meridian time is 2pm. What is your longitude? Lom

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Locations to the East are Later (add time). Locations to the West are Earlier (subtract time).

Ex. It is 3:00pm at the Prime Meridian and you are located 15°W longitude. What time is it where you are?

150 w = 1 hr carlier

Ex. It is 3:00pm at the Prime Meridian and you are located 30'E longitude. What time is it where you are?

2 hrs later 3 pm + 2 = (5 pm

Practice handout...

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Longitude/Time Zones Practice

1. Your time is 2:00 pm, Prime Meridian time is 10:00 am. What is 2-10 = 4 hrs x150 your longitude?

2. You time is 9:00 am, Prime Meridian time is 3:00pm. What is your longitude?

6 hr x 150 - 90°W

3. Your time is 5:00pm, Prime Meridian time is 4:00pm. What is your longitude?

Ihr

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6. It is 2:00pm a the Prime Meridian and you are located at 45'E longitude. What time is it where you are?

: 3hr later + 2pm (5pm

7. It is 10:00am at the Prime Meridian and you are located at 60'W longitude. What time is it where you are?

60° - 4hrearlier - 10-

8. It is 10:00am at the Prime Meridian and ou are located at 90'E longitude. What time is it where you are?

900e = - 6hrlater HW-LatLongTime handout, Lab Due!! castlearning Due Friday morning (TEST FRIDAY)

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