Date		
Date		

Time Zone Questions

		separate time zone	or longitude,	latitude	Which lines,	1.
--	--	--------------------	---------------	----------	--------------	----

- 2. How many degrees are there in a standard time zone?
- 3. If two ships in the Pacific Ocean are three hours apart, how many degrees longitude separate them?
- 4. If two cities on the Earth have a 60° difference in longitude, what is the time difference between the two cities?
- 5. A person knows the solar time on the Prime Meridian and the local time. What determination can be made?
 - (1) the date

(3) the longitude at which the person is located

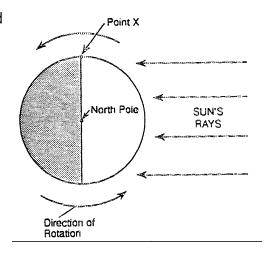
(2) the altitude of Polaris

- (4) the latitude at which the person is located
- 6. Two cities on the globe have a 2 hour time difference. What is the difference in longitude between the two cities?
 - (1) 15°

- (2) 30°
- $(3) 45^{\circ}$
- (4) 60°

The diagram below shows the rotating Earth as it would appear from a satellite over the North Pole.

- 7. The time at point X is closest to
 - (1) 6 am.
 - (2) 12 noon
 - (3) 6 p.m
 - (4) 12 midnight



Use the Grid Method to answer questions 8-15. Show the grid below each question to sup	oport your answers.
8. How many hours of time exist between 45°N, 15°E and 60°N, 60°E?	
9. If the time at 75°W longitude is 12:00pm, what time is it at 90°W longitude?	
10. If the time at 120°W longitude is 9:00pm, what time is it at 75°W longitude?	
11. The time at the Prime Meridian is 5:00pm. What would the time be at a location 45° east of the Prime Meridian?	
12. The time at 45°W is 3:00am. At which longitude would the time be 6:00am?	
13. The time in New York City (75°W) is 11:00pm. What would the time be at the Prime Meridian?	
14. If the time at 30°E longitude is 1:00pm, what time is it at 45°W longitude?	
15. The time at the Prime Meridian is 5:00pm. At which longitude would the time be 9:00pm?	