Due December 8

AST101 Takehome Quiz #10

For full credit, be sure to include proper units, as well as E, W, a.m., p.m. when appropriate with your answers.

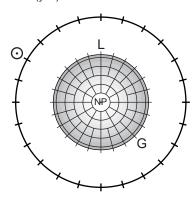
- 1. Using the diagram at right, what is the Local Mean Solar Time (LMT)? Remember to use a.m. or p.m.
- 2. Using the same diagram, what is the Greenwich Mean Solar Time (GMT)?
- 3. From the same diagram, what is your longitude (local position)? Be sure to indicate East or West.
- 4. Using the second diagram at right, what is the Local Mean Solar Time (LMT)? Remember to use a.m. or p.m.
- 5. Using the second diagram, what is the Greenwich Mean Solar Time (GMT)?
- 6. From the second diagram, what is your longitude (local position)? Be sure to indicate East or West.
- 7. What is the longitude of a location where the LMT is 4 p.m. and the GMT is 7 a.m.?
- 8. What is the longitude of a location where the LMT is 7 p.m. and the GMT is 3 a.m.? Answer must be between 0° and 180° E or W.
- 9. The GMT is 12 noon. What is the LMT at longitude 135°W?
- 10. On March 21, what time (LMT) does the sun transit for longitude 90°E?

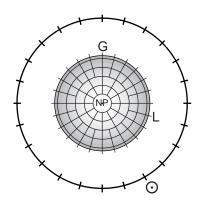
Name

G = Greenwich

⊙ = sun (mean)

L = local position (you)





Use the following blank diagrams for scratch, if needed.
Additional blanks are available on class website.

