Mystery Class Longitude Clues

Mystery Class # _____

1. **FACT: Greenwich, England is at 0 degrees longitude**.
Mark the location of Greenwich, England on the map.

2. **FACT: The sun will rise at 06:02 A.M. (UT/GMT) in Greenwich, England on the Spring Equinox** (March 20, 2008). Write the sunrise time beside 0 degrees longitude on the map.

3. The sun will rise at _____ (UT/GMT) at this Mystery Class location on the Spring Equinox. (Look up on Sunrise Chart.)

4. The difference between the time the sun rises at this Mystery Class and the time the sun rises in Greenwich, England is _____ hours and _____ minutes.

(**CAUTION!** Remember that hours and minutes are not in decimal form. This may not be a simple subtraction or addition equation for your Mystery Class site. Think about your answer!)

5. **FACT: The Earth turns to the east as it spins.**
The Earth will spin for _____ minutes between the time the sun rises at Greenwich and the time it rises at this Mystery Class location. (Clue: convert your answer in #4 above to minutes.)

6. **FACT: The Earth spins 1 degree longitude every 4 minutes.**
I estimate the longitude of this Mystery Class to be _____ degrees.